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1.4 activiti-common-rest 5.19.0.2

1.5 activiti-engine 5.19.0.2

1.6 activiti-image-generator 5.19.0.2

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1.8 activiti-process-validation 5.19.0.2

1.9 activiti-rest 5.19.0.2

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1.12 ANTLR 2.7.6

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1.16 byte-buddy-agent 1.6.5

1.17 c3p0 0.9.1.1

1.18 ces_monitor 1.0

1.19 cglib 2.1_3

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1.20 cglib-nodep 2.1_3

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1.36 dom4j 1.6.1

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1.37 groovy-all 2.4.3

1.38 Gson 2.3.1

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```

```
package com.google.gson.internal;
```

```
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;
```

```
/**
* Contains static utility methods pertaining to primitive types and their
* corresponding wrapper types.
*
* @author Kevin Bourrillion
*/
public final class Primitives {
    private Primitives() {}
```

```

/** A map from primitive types to their corresponding wrapper types. */
private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

/** A map from wrapper types to their corresponding primitive types. */
private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

// Sad that we can't use a BiMap. :(

static {
    Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
    Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);

    add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
    add(primToWrap, wrapToPrim, byte.class, Byte.class);
    add(primToWrap, wrapToPrim, char.class, Character.class);
    add(primToWrap, wrapToPrim, double.class, Double.class);
    add(primToWrap, wrapToPrim, float.class, Float.class);
    add(primToWrap, wrapToPrim, int.class, Integer.class);
    add(primToWrap, wrapToPrim, long.class, Long.class);
    add(primToWrap, wrapToPrim, short.class, Short.class);
    add(primToWrap, wrapToPrim, void.class, Void.class);

    PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
    WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
}

private static void add(Map<Class<?>, Class<?>> forward,
    Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
    forward.put(key, value);
    backward.put(value, key);
}

/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns { @code true } if { @code type } is one of the nine
 * primitive-wrapper types, such as { @link Integer }.
 *
 * @see Class#isPrimitive
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
}

```

```

}

/**
 * Returns the corresponding wrapper type of { @code type} if it is a primitive
 * type; otherwise returns { @code type} itself. Idempotent.
 * <pre>
 *   wrap(int.class) == Integer.class
 *   wrap(Integer.class) == Integer.class
 *   wrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of { @code type} if it is a
 * wrapper type; otherwise returns { @code type} itself. Idempotent.
 * <pre>
 *   unwrap(Integer.class) == int.class
 *   unwrap(int.class) == int.class
 *   unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}
}

```

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1.39 guava 18.0

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(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.44 Hibernate Core 3.5.4-Final

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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1.45 hibernate entitymanager 4.3.5.Final

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/*

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1.46 hibernate-jpa-2.1-api 1.0.0.Final

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```

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<meta name="author" content="Mike Milinkovich, January 25, 2008"/>
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IDE framework, a tools framework, an open source project, a community, an eco-system, and a foundation."/>
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account</a></li>
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```

```

<div class="row" id="header-row">
  <div class="hidden-xs col-sm-8 col-md-6 col-lg-5" id="header-left">
    <div class="wrapper-logo-default"><a href="http://www.eclipse.org/"></a></div>
  </div>
  <div class="col-sm-10 col-md-8 col-lg-5 hidden-print hidden-xs pull-right" id="header-right">
    <div class="row"><div class="col-md-24">
      <div id="custom-search-form" class="reset-box-sizing">
        <script>
          (function() {
            var cx = '011805775785170369411:p3ec0igo0qq';
            var gcse = document.createElement('script');
            gcse.type = 'text/javascript';
            gcse.async = true;
            gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
              '//cse.google.com/cse.js?cx=' + cx;
            var s = document.getElementsByTagName('script')[0];
            s.parentNode.insertBefore(gcse, s);
          })();
        </script>
        <gcse:searchbox-only gname="main" resultsUrl="https://www.eclipse.org/home/search.php"></gcse:searchbox-only>
      </div></div></div>
      <div id="btn-call-for-action"><a href="//www.eclipse.org/downloads/" class="btn btn-huge btn-warning"><i class="fa fa-download"></i> Download</a></div>
    </div>
    <div class="col-sm-14 col-md-16 col-lg-19 reset" id="main-menu-wrapper">
      <div class="navbar yamm" id="main-menu">
        <div id="navbar-collapse-1" class="navbar-collapse collapse">
          <ul class="nav navbar-nav">
            <li class="visible-thin"><a href="http://www.eclipse.org/downloads/" target="_self">Download</a></li><li><a href="http://www.eclipse.org/users/" target="_self">Getting Started</a></li><li><a href="http://www.eclipse.org/membership/" target="_self">Members</a></li><li><a href="http://www.eclipse.org/projects/" target="_self">Projects</a></li>
            <li class="dropdown visible-xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Community <b class="caret"></b></a><ul class="dropdown-menu"><li><a href="http://marketplace.eclipse.org">Marketplace</a></li><li><a href="http://events.eclipse.org">Events</a></li><li><a href="http://www.planeteclipse.org">Planet Eclipse</a></li><li><a href="http://www.eclipse.org/community/eclipse_newsletter/">Newsletter</a></li><li><a href="https://www.youtube.com/user/EclipseFdn">Videos</a></li></ul></li><li class="dropdown visible-xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Participate <b class="caret"></b></a><ul class="dropdown-menu"><li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li><li><a href="http://www.eclipse.org/forums/">Forums</a></li><li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li><li><a href="https://wiki.eclipse.org/">Wiki</a></li><li><a href="https://wiki.eclipse.org/IRC">IRC</a></li><li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li></ul></li><li class="dropdown visible-xs"><a href="#" data-toggle="dropdown" class="dropdown-toggle">Working Groups <b class="caret"></b></a><ul class="dropdown-menu"><li><a href="http://iot.eclipse.org">Internet of Things</a></li><li><a href="http://locationtech.org">LocationTech</a></li><li><a href="http://lts.eclipse.org">Long-Term Support</a></li><li><a href="http://polarsys.org">PolarSys</a></li><li><a

```



```

<h3 class="sr-only">Breadcrumbs</h3>
<div class="row">
  <div class="col-sm-16 padding-left-30"><ol class="breadcrumb"><li><a
href="http://www.eclipse.org/">Home</a></li><li><a href="http://www.eclipse.org/org">About
Us</a></li><li><a href="http://www.eclipse.org/org/documents">Governance Documents</a></li><li
class="active">Eclipse Distribution License</li></ol></div>
  <div class="col-sm-8 margin-top-15"></div>
</div>

</div>
</section> <!-- /#breadcrumb --><main class="no-promo">
<div class="novaContent container" id="novaContent">
  <!-- nav -->
<aside id="leftcol" class="col-md-4">
  <ul id="leftnav" class="ul-left-nav fa-ul hidden-print">

    <li class="separator">
      <a class="separator" href="/org/">
        About Us      </a>
    </li>

    <li>
      <i class="fa fa-angle-double-right orange fa-fw"></i>
      <a href="/org/foundation/reports/annual_report.php" target="_self">
        Annual Report  </a>
    </li>

    <li>
      <i class="fa fa-angle-double-right orange fa-fw"></i>
      <a href="/org/foundation/" target="_self">
        Foundation    </a>
    </li>

    <li>
      <i class="fa fa-angle-double-right orange fa-fw"></i>
      <a href="/org/documents/" target="_self">
        Governance    </a>
    </li>

```



```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/legal/" target="_self">
    Legal Resources    </a>
</li>
```

```
<li>
  <i class="fa fa-angle-double-right orange fa-fw"></i>
  <a href="/org/foundation/contact.php" target="_self">
    Contact Us        </a>
</li>
```

```
</ul>
</aside>
```

```
<div id="midcolumn">
  <h1>Eclipse Distribution License - v 1.0</h1>
```

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```

```
</div>
<div id="rightcolumn">
```

```

<div class="sideitem">
  <h6>OSI Approved</h6>The Eclipse Distribution License is an OSI Approved Open Source License by means of
the
  <a href="http://www.opensource.org/licenses/BSD-3-Clause" target="blank">New BSD License</a>.
  <p align="center"><a href="http://www.opensource.org/licenses/BSD-3-Clause" target="blank">&nbsp;</a></p>
  <h6>Purpose</h6>
  Use of the Eclipse Distribution License by any project at the Eclipse Foundation must
  be reviewed and unanimously approved by the <a href="http://www.eclipse.org/foundation/directors.php">Board of Directors</a>.
  <h6>Related Links</h6>
  <ul>
  <li>The standard Eclipse license is the <a href="http://www.eclipse.org/licenses/epl-v10.php">Eclipse Public License</a>.</li>
  <li><a href="http://www.eclipse.org/licenses/edl-v10.html">EDL in plain HTML</a></li>
  </ul>
</div>
</div>
</div>
</main> <!-- #main-content-container-row --><p id="back-to-top">
  <a class="visible-xs" href="#top">Back to the top</a>
</p>
<footer role="contentinfo" id="solstice-footer">
  <div class="container">
  <div class="row">
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-eclipse-
foundation">
      <h2 class="section-title">Eclipse Foundation</h2>
      <ul class="nav">
      <li><a href="http://www.eclipse.org/org/">About us</a></li>
      <li><a href="http://www.eclipse.org/org/foundation/contact.php">Contact Us</a></li>
      <li><a href="http://www.eclipse.org/donate">Donate</a></li>
      <li><a href="http://www.eclipse.org/org/documents/">Governance</a></li>
      <li><a href="http://www.eclipse.org/artwork/">Logo and Artwork</a></li>
      <li><a href="http://www.eclipse.org/org/foundation/directors.php">Board of Directors</a></li>
      </ul>
    </section>
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-legal">
      <h2 class="section-title">Legal</h2>
      <ul class="nav">
      <li><a href="http://www.eclipse.org/legal/privacy.php">Privacy Policy</a></li>
      <li><a href="http://www.eclipse.org/legal/termsfuse.php">Terms of Use</a></li>
      <li><a href="http://www.eclipse.org/legal/copyright.php">Copyright Agent</a></li>
      <li><a href="http://www.eclipse.org/org/documents/epl-v10.php">Eclipse Public License </a></li>
      <li><a href="http://www.eclipse.org/legal/">Legal Resources </a></li>
      </ul>
    </section>
    <section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-useful-
links">
      <h2 class="section-title">Useful Links</h2>
      <ul class="nav">
      <li><a href="https://bugs.eclipse.org/bugs/">Report a Bug</a></li>

```

```

<li><a href="//help.eclipse.org/">Documentation</a></li>
<li><a href="http://www.eclipse.org/contribute/">How to Contribute</a></li>
<li><a href="http://www.eclipse.org/mail/">Mailing Lists</a></li>
<li><a href="http://www.eclipse.org/forums/">Forums</a></li>
<li><a href="//marketplace.eclipse.org">Marketplace</a></li>
</ul> </section>
<section class="col-sm-offset-1 col-xs-11 col-sm-7 col-md-6 col-md-offset-0 hidden-print" id="footer-other">
  <h2 class="section-title">Other</h2>
<ul class="nav">
  <li><a href="http://www.eclipse.org/ide/">IDE and Tools</a></li>
  <li><a href="http://www.eclipse.org/projects">Community of Projects</a></li>
  <li><a href="http://www.eclipse.org/org/workinggroups/">Working Groups</a></li>
  <li><a href="http://www.eclipse.org/org/research/">Research@Eclipse</a></li>
</ul>

<ul class="list-inline social-media">
  <li><a href="https://twitter.com/EclipseFdn"><i class="fa fa-twitter-square"></i></a></li>
  <li><a href="https://plus.google.com/+Eclipse"><i class="fa fa-google-plus-square"></i></a></li>
  <li><a href="https://www.facebook.com/eclipse.org"><i class="fa fa-facebook-square"></i> </a></li>
  <li><a href="https://www.youtube.com/user/EclipseFdn"><i class="fa fa-youtube-square"></i></a></li>
  <li><a href="https://www.linkedin.com/company/eclipse-foundation"><i class="fa fa-linkedin-
square"></i></a></li>
</ul> </section>
  <div id="copyright" class="col-sm-offset-1 col-sm-14 col-md-24 col-md-offset-0">
    <span class="hidden-print"><div class="wrapper-logo-eclipse-white"><a href="http://www.eclipse.org"></a></div></span>
    <p id="copyright-text">Copyright &copy; 2017 The Eclipse Foundation. All Rights Reserved.</p>
    <div> <a href="#" class="scrollup">Back to the top</a>
  </div>
</div>
</footer>
<!-- Placed at the end of the document so the pages load faster -->
<script src="/eclipse.org-common/themes/solstice/public/javascript/main.min.js"></script>

<script type="text/javascript">

var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-910670-2']);
_gaq.push(['_trackPageview']);

(function() {
var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
})();

</script>

```

```

</body>
</html>
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
    size: 8.5in 11.0in;
    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
}
p {
    margin-left: auto;
    margin-top: 0.5em;
    margin-bottom: 0.5em;
}
p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
    margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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</body>

</html>

1.47 jackson-annotations 2.2.3

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Here are people who have contributed to development Jackson JSON process core component, version 2.x

(version numbers in brackets indicate release in which the problem was fixed)

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Tatu Saloranta, tatu.saloranta@iki.fi: author

Pascal G"linas:

- * Reported [JACKSON-827]: 2.0.0 was accidentally requiring JDK 1.6 (should still be 1.5)
[2.0.1]

Ben Gertzfield (bgertzfield@github):

- * Contributed [Issue#49]: Improvements to VersionUtil to more efficiently read dynamically generated/embedded version information, to improve Android startup time
[2.2.0]

Klaus Brunner (KlausBrunner@github)

- * Reported [Issue#48]: Problem with URLs, spaces

1.51 jackson-core-asm 1.9.10

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Here are people who have contributed to development Jackson JSON processor databind core component, version 2.x

(version numbers in brackets indicate release in which the problem was fixed)

(note: for older credits, check out release notes for 1.x versions)

Tatu Saloranta, tatu.saloranta@iki.fi: author

Pascal GŽlinas:

- * Contributed fixes to 'MappingIterator' handling (Pull#58 and Pull#59)

(2.1.0)

- * Reported #220: ContainerNode missing 'createNumber(BigInteger)'

(2.2.2)

Joern Huxhorn:

- * Suggested [JACKSON-636]: Add 'SerializationFeature.ORDER_MAP_ENTRIES_BY_KEYS' to allow forced sorting of Maps during serialization

(2.0.0)

James Roper:

- * Requested [JACKSON-732]: Allow 'AnnotationIntrospector.findContentDeserializer()' (and similar) to return instance, not just Class<?> for instance

(2.0.0)

- * Suggested [JACKSON-800]: Adding a method for letting modules register DeserializationProblemHandlers

(2.0.0)

Casey Lucas:

- * Reported [JACKSON-798]: Problem with external type id, creators

(2.0.0)

Tammo van Lessen:

- * Reported [JACKSON-811]: Problems with @JsonIdentityInfo, abstract types (2.0.0)
- * Reported [JACKSON-814]: Parsing RFC822/RFC1123 dates fails on non-US locales (2.0.0)

Raymond Myers:

- * Suggested [JACKSON-810]: Deserialization Feature: Allow unknown Enum values via 'DeserializationFeature.READ_UNKNOWN_ENUM_VALUES_AS_NULL' (2.0.0)

Ryan Gardner:

- * Contributed [pull-5] -- Add support for maps with java.util.Locale keys to the set of StdKeyDeserializers (2.0.1)

Razvan Dragut:

- * Suggested [JACKSON-850]: Allow use of zero-arg factory methods as "default creator" (2.1.0)

Duncan Atkinson:

- * Reported [JACKSON-851]: State corruption with ObjectWriter, DefaultPrettyPrinter (2.1.0)

Mark Wolfe:

- * Suggested [Issue#45]: Add `@JsonNaming()` for per-class naming strategy overrides (2.1.0)

Dmitry Katsubo:

- * Contributed patch for [Issue#65]: Add getters to `ObjectMapper`, DeserializationContext, DeserializationFactory. (2.1.0)

Francis Galieue:

- * Reported [Issue#93] (and suggested fix): bug in `ObjectMapper.setAll(...)` implementation (2.1.1)

kelaneren@github:

- * Reported [Issue#157], contributed unit test: NPE when registering same module twice. (2.1.4)

Eric Tschetter (cheddar@github):

- * Reported issues #166, #167, #170 (regressions from 1.9.x to 2.x) (2.1.4)

Thierry D (thierryd@github)

- * Reported #214: Problem with LICENSE, NOTICE, Android packaging

(2.2.2)

Luke G-H (lukegh@github)

* Reported #223: Duplicated nulls with @JsonFormat(shape=Shape.ARRAY)

(2.2.2)

Karl Moore (karldmoore@github)

* Reported #217: JsonProcessingExceptions not all wrapped as expected

(2.2.2)

1.53 jackson-databind 2.4.1

1.53.1 Available under license :

/* Jackson JSON-processor.

*

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1.54 jackson-mapper-asl 1.9.10

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1.62 jboss-logging 3.1.3.GA

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*/

package org.apache.commons.logging;

/**

* <p>A simple logging interface abstracting logging APIs. In order to be

* instantiated successfully by { @link LogFactory }, classes that implement

* this interface must have a constructor that takes a single String

* parameter representing the "name" of this Log.</p>

*

* <p> The six logging levels used by <code>Log</code> are (in order):

*

* trace (the least serious)

* debug

* info

* warn

* error

* fatal (the most serious)

*

* The mapping of these log levels to the concepts used by the underlying

* logging system is implementation dependent.

```

* The implementation should ensure, though, that this ordering behaves
* as expected.</p>
*
* <p>Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged).</p>
*
* <p> For example,
* <code><pre>
*   if (log.isDebugEnabled()) {
*     ... do something expensive ...
*     log.debug(theResult);
*   }
* </pre></code>
* </p>
*
* <p>Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
*
* <p style="color: #E40; font-weight: bold;">Please note that this interface is identical to that found in JCL
1.1.1.</p>
*
* @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

    // ----- Logging Properties

    /**
     * <p> Is debug logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations
     * (for example, <code>String</code> concatenation)
     * when the log level is more than debug. </p>
     */
    public boolean isDebugEnabled();

    /**
     * <p> Is error logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations

```

```

* (for example, <code>String</code> concatenation)
* when the log level is more than error. </p>
*/
public boolean isErrorEnabled();

/**
 * <p> Is fatal logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than fatal. </p>
 */
public boolean isFatalEnabled();

/**
 * <p> Is info logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than info. </p>
 *
 * @return true if info enabled, false otherwise
 */
public boolean isInfoEnabled();

/**
 * <p> Is trace logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than trace. </p>
 *
 * @return true if trace enabled, false otherwise
 */
public boolean isTraceEnabled();

/**
 * <p> Is warn logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than warn. </p>
 */
public boolean isWarnEnabled();

```

```
// ----- Logging Methods
```

```
/**  
 * <p> Log a message with trace log level. </p>  
 *  
 * @param message log this message  
 */  
public void trace(Object message);
```

```
/**  
 * <p> Log an error with trace log level. </p>  
 *  
 * @param message log this message  
 * @param t log this cause  
 */  
public void trace(Object message, Throwable t);
```

```
/**  
 * <p> Log a message with debug log level. </p>  
 *  
 * @param message log this message  
 */  
public void debug(Object message);
```

```
/**  
 * <p> Log an error with debug log level. </p>  
 *  
 * @param message log this message  
 * @param t log this cause  
 */  
public void debug(Object message, Throwable t);
```

```
/**  
 * <p> Log a message with info log level. </p>  
 *  
 * @param message log this message  
 */  
public void info(Object message);
```

```
/**
```

```
* <p> Log an error with info log level. </p>
*
* @param message log this message
* @param t log this cause
*/
public void info(Object message, Throwable t);
```

```
/**
 * <p> Log a message with warn log level. </p>
 *
 * @param message log this message
 */
public void warn(Object message);
```

```
/**
 * <p> Log an error with warn log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void warn(Object message, Throwable t);
```

```
/**
 * <p> Log a message with error log level. </p>
 *
 * @param message log this message
 */
public void error(Object message);
```

```
/**
 * <p> Log an error with error log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void error(Object message, Throwable t);
```

```
/**
 * <p> Log a message with fatal log level. </p>
 *
 * @param message log this message
 */
public void fatal(Object message);
```

```

/**
 * <p> Log an error with fatal log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void fatal(Object message, Throwable t);

}

```

1.66 jgraphx 1.10.4.1

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No source code of the original library was modified.

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The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.jfree' to 'clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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Version 2.1, February 1999

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```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
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That's all there is to it!

```
/*
```

```
File: Core.js
```

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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Version:

1.1.2

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1.72 json-smart 1.2

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1.76 log4j-core 2.1

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1.78 mockito-core 2.6.8

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1.82 objenesis 2.5

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1.83 ojdbc7 12.1.0.1

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1.84 quartz 2.2.1

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1.86 selenium-chrome-driver 2.53.0

1.87 selenium-edge-driver 2.53.0

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1.92 selenium-remote-driver 2.53.0

1.93 selenium-safari-driver 2.53.0

1.94 selenium-support 2.53.0

1.95 slf4j-api 1.7.7

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```

```
*
```

```
*/
```

```
package org.slf4j;
```

```
import org.slf4j.helpers.BasicMarkerFactory;
```

```
import org.slf4j.helpers.Util;
```

```
import org.slf4j.impl.StaticMarkerBinder;
```

```
/**
```

```
* MarkerFactory is a utility class producing { @link Marker } instances as
* appropriate for the logging system currently in use.
```

```
*
```

```
* <p>
```

```
* This class is essentially implemented as a wrapper around an
```

```
* { @link IMarkerFactory } instance bound at compile time.
```

```
*
```

```
* <p>
```

```
* Please note that all methods in this class are static.
```

```
*
```

```
* @author Ceki G&uuml;lc&uuml;lc
```

```
*/
```

```
public class MarkerFactory {
```

```
    static IMarkerFactory markerFactory;
```

```
    private MarkerFactory() {
```

```
    }
```

```
    static {
```

```
        try {
```

```
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
```

```
        } catch (NoClassDefFoundError e) {
```

```
            markerFactory = new BasicMarkerFactory();
```

```
        } catch (Exception e) {
```

```
            // we should never get here
```

```
            Util.report("Unexpected failure while binding MarkerFactory", e);
```

```
        }
```

```
    }
```

```
/**
```

```
* Return a Marker instance as specified by the name parameter using the
```

```
* previously bound { @link IMarkerFactory } instance.
```

```
*
```

```
* @param name
```

```

*      The name of the {@link Marker} object to return.
* @return marker
*/
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
* Create a marker which is detached (even at birth) from the MarkerFactory.
*
* @param name the name of the marker
* @return a dangling marker
* @since 1.5.1
*/
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
* Return the {@link IMarkerFactory} instance in use.
*
* <p>The IMarkerFactory instance is usually bound with this class at
* compile time.
*
* @return the IMarkerFactory instance in use
*/
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}

```

1.96 slf4j-api 1.7.6

1.97 slf4j-log4j12 1.7.6

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```

```
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    <title>SLF4J License</title>
    <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
  </head>
  <body>
    <script type="text/javascript">prefix="";</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="content">
```

```
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1.105 Spring Expression Language (SpEL) 4.1.5.RELEASE

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 */
```

```
package org.springframework.aop.config;
```

```
import org.springframework.aop.aspectj.AspectInstanceFactory;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.core.Ordered;
import org.springframework.util.ClassUtils;
import org.springframework.util.StringUtils;
```

```
/**
 * Implementation of { @link AspectInstanceFactory } that locates the aspect from the
```

```

* { @link org.springframework.beans.factory.BeanFactory } using a configured bean name.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
BeanFactoryAware {

    private String aspectBeanName;

    private BeanFactory beanFactory;

    /**
     * Set the name of the aspect bean. This is the bean that is returned when calling
     * { @link #getAspectInstance() }.
     */
    public void setAspectBeanName(String aspectBeanName) {
        this.aspectBeanName = aspectBeanName;
    }

    @Override
    public void setBeanFactory(BeanFactory beanFactory) {
        this.beanFactory = beanFactory;
        if (!StringUtils.hasText(this.aspectBeanName)) {
            throw new IllegalArgumentException("'aspectBeanName' is required");
        }
    }

    /**
     * Look up the aspect bean from the { @link BeanFactory } and returns it.
     * @see #setAspectBeanName
     */
    @Override
    public Object getAspectInstance() {
        return this.beanFactory.getBean(this.aspectBeanName);
    }

    @Override
    public ClassLoader getAspectClassLoader() {
        if (this.beanFactory instanceof ConfigurableBeanFactory) {
            return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
        }
        else {
            return ClassUtils.getDefaultClassLoader();
        }
    }
}

```

```

}

@Override
public int getOrder() {
    if (this.beanFactory.isSingleton(this.aspectBeanName) &&
        this.beanFactory.isTypeMatch(this.aspectBeanName, Ordered.class)) {
        return ((Ordered) this.beanFactory.getBean(this.aspectBeanName)).getOrder();
    }
    return Ordered.LOWEST_PRECEDENCE;
}

}
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 * limitations under the License.
 */

package org.springframework.aop.target;

/**
 * Simple {@link org.springframework.aop.TargetSource} implementation,
 * freshly obtaining the specified target bean from its containing
 * Spring {@link org.springframework.beans.factory.BeanFactory}.
 *
 * <p>Can obtain any kind of target bean: singleton, scoped, or prototype.
 * Typically used for scoped beans.
 *
 * @author Juergen Hoeller
 * @since 2.0.3
 */
@SuppressWarnings("serial")
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

    @Override
    public Object getTarget() throws Exception {
        return getBeanFactory().getBean(getTargetBeanName());
    }
}

```

```

}
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 * limitations under the License.
 */

package org.springframework.aop.aspectj;

import org.springframework.aop.framework.AopConfigException;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;

/**
 * Implementation of { @link AspectInstanceFactory } that creates a new instance
 * of the specified aspect class for every { @link #getAspectInstance() } call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

    private final Class<?> aspectClass;

    /**
     * Create a new SimpleAspectInstanceFactory for the given aspect class.
     * @param aspectClass the aspect class
     */
    public SimpleAspectInstanceFactory(Class<?> aspectClass) {
        Assert.notNull(aspectClass, "Aspect class must not be null");
        this.aspectClass = aspectClass;
    }

    /**
     * Return the specified aspect class (never { @code null }).
     */

```

```

public final Class<?> getAspectClass() {
    return this.aspectClass;
}

@Override
public final Object getAspectInstance() {
    try {
        return this.aspectClass.newInstance();
    }
    catch (InstantiationException ex) {
        throw new AopConfigException("Unable to instantiate aspect class [" + this.aspectClass.getName() + "]", ex);
    }
    catch (IllegalAccessException ex) {
        throw new AopConfigException("Cannot access element class [" + this.aspectClass.getName() + "]", ex);
    }
}

@Override
public ClassLoader getAspectClassLoader() {
    return this.aspectClass.getClassLoader();
}

/**
 * Determine the order for this factory's aspect instance,
 * either an instance-specific order expressed through implementing
 * the {@link org.springframework.core.Ordered} interface,
 * or a fallback order.
 * @see org.springframework.core.Ordered
 * @see #getOrderForAspectClass
 */
@Override
public int getOrder() {
    return getOrderForAspectClass(this.aspectClass);
}

/**
 * Determine a fallback order for the case that the aspect instance
 * does not express an instance-specific order through implementing
 * the {@link org.springframework.core.Ordered} interface.
 * <p>The default implementation simply returns {@code Ordered.LOWEST_PRECEDENCE}.
 * @param aspectClass the aspect class
 */
protected int getOrderForAspectClass(Class<?> aspectClass) {
    return Ordered.LOWEST_PRECEDENCE;
}
}

```

```

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 */

package org.springframework.aop.aspectj.annotation;

import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.OrderUtils;

/**
 * Implementation of { @link MetadataAwareAspectInstanceFactory } that
 * creates a new instance of the specified aspect class for every
 * { @link #getAspectInstance() } call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {

    private final AspectMetadata metadata;

    /**
     * Create a new SimpleMetadataAwareAspectInstanceFactory for the given aspect class.
     * @param aspectClass the aspect class
     * @param aspectName the aspect name
     */
    public SimpleMetadataAwareAspectInstanceFactory(Class<?> aspectClass, String aspectName) {
        super(aspectClass);
        this.metadata = new AspectMetadata(aspectClass, aspectName);
    }

    @Override

```

```

public final AspectMetadata getAspectMetadata() {
    return this.metadata;
}

@Override
protected int getOrderForAspectClass(Class<?> aspectClass) {
    return OrderUtils.getOrder(aspectClass, Ordered.LOWEST_PRECEDENCE);
}

}
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 * limitations under the License.
 */

package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;

import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPrecedenceInformation;
import org.springframework.aop.aspectj.InstantiationModelAwarePointcutAdvisor;
import org.springframework.aop.aspectj.annotation.AbstractAspectJAdvisorFactory.AspectJAnnotation;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

/**
 * Internal implementation of AspectJPointcutAdvisor.
 * Note that there will be one instance of this advisor for each target method.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0

```



```

*/
class InstantiationModelAwarePointcutAdvisorImpl
    implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

    private final AspectJExpressionPointcut declaredPointcut;

    private Pointcut pointcut;

    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

    private final Method method;

    private final boolean lazy;

    private final AspectJAdvisorFactory atAspectJAdvisorFactory;

    private Advice instantiatedAdvice;

    private int declarationOrder;

    private String aspectName;

    private Boolean isBeforeAdvice;

    private Boolean isAfterAdvice;

    public InstantiationModelAwarePointcutAdvisorImpl(AspectJAdvisorFactory af, AspectJExpressionPointcut ajexp,
        MetadataAwareAspectInstanceFactory aif, Method method, int declarationOrderInAspect, String aspectName) {

        this.declaredPointcut = ajexp;
        this.method = method;
        this.atAspectJAdvisorFactory = af;
        this.aspectInstanceFactory = aif;
        this.declarationOrder = declarationOrderInAspect;
        this.aspectName = aspectName;

        if (aif.getAspectMetadata().isLazilyInstantiated()) {
            // Static part of the pointcut is a lazy type.
            Pointcut preInstantiationPointcut =
                Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);

            // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
            // If it's not a dynamic pointcut, it may be optimized out
            // by the Spring AOP infrastructure after the first evaluation.
            this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
            this.lazy = true;
        }
    }

```

```

else {
    // A singleton aspect.
    this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    this.pointcut = declaredPointcut;
    this.lazy = false;
}
}

/**
 * The pointcut for Spring AOP to use. Actual behaviour of the pointcut will change
 * depending on the state of the advice.
 */
@Override
public Pointcut getPointcut() {
    return this.pointcut;
}

/**
 * This is only of interest for Spring AOP: AspectJ instantiation semantics
 * are much richer. In AspectJ terminology, all a return of { @code true }
 * means here is that the aspect is not a SINGLETON.
 */
@Override
public boolean isPerInstance() {
    return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

/**
 * Return the AspectJ AspectMetadata for this advisor.
 */
public AspectMetadata getAspectMetadata() {
    return this.aspectInstanceFactory.getAspectMetadata();
}

/**
 * Lazily instantiate advice if necessary.
 */
@Override
public synchronized Advice getAdvice() {
    if (this.instantiatedAdvice == null) {
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    }
    return this.instantiatedAdvice;
}

@Override
public boolean isLazy() {

```

```

return this.lazy;
}

@Override
public synchronized boolean isAdviceInstantiated() {
    return (this.instantiatedAdvice != null);
}

private Advice instantiateAdvice(AspectJExpressionPointcut pcut) {
    return this.atAspectJAdvisorFactory.getAdvice(
        this.method, pcut, this.aspectInstanceFactory, this.declarationOrder, this.aspectName);
}

public MetadataAwareAspectInstanceFactory getAspectInstanceFactory() {
    return this.aspectInstanceFactory;
}

public AspectJExpressionPointcut getDeclaredPointcut() {
    return this.declaredPointcut;
}

@Override
public int getOrder() {
    return this.aspectInstanceFactory.getOrder();
}

@Override
public String getAspectName() {
    return this.aspectName;
}

@Override
public int getDeclarationOrder() {
    return this.declarationOrder;
}

@Override
public boolean isBeforeAdvice() {
    if (this.isBeforeAdvice == null) {
        determineAdviceType();
    }
    return this.isBeforeAdvice;
}

@Override
public boolean isAfterAdvice() {
    if (this.isAfterAdvice == null) {

```

```

    determineAdviceType();
}
return this.isAfterAdvice;
}

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
    AspectJAnnotation<?> aspectJAnnotation =
        AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
    if (aspectJAnnotation == null) {
        this.isBeforeAdvice = false;
        this.isAfterAdvice = false;
    }
    else {
        switch (aspectJAnnotation.getAnnotationType()) {
            case AtAfter:
            case AtAfterReturning:
            case AtAfterThrowing:
                this.isAfterAdvice = true;
                this.isBeforeAdvice = false;
                break;
            case AtAround:
            case AtPointcut:
                this.isAfterAdvice = false;
                this.isBeforeAdvice = false;
                break;
            case AtBefore:
                this.isAfterAdvice = false;
                this.isBeforeAdvice = true;
        }
    }
}

@Override
public String toString() {
    return "InstantiationModelAwarePointcutAdvisor: expression [" + getDeclaredPointcut().getExpression() +
        "]; advice method [" + this.method + "]; perClauseKind=" +
        this.aspectInstanceFactory.getAspectMetadata().getAjType().getPerClause().getKind();
}

/**
 * Pointcut implementation that changes its behaviour when the advice is instantiated.

```

```

* Note that this is a <i>dynamic</i> pointcut. Otherwise it might
* be optimized out if it does not at first match statically.
*/
private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

    private final AspectJExpressionPointcut declaredPointcut;

    private final Pointcut preInstantiationPointcut;

    private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

    private PerTargetInstantiationModelPointcut(AspectJExpressionPointcut declaredPointcut,
        Pointcut preInstantiationPointcut, MetadataAwareAspectInstanceFactory aspectInstanceFactory) {
        this.declaredPointcut = declaredPointcut;
        this.preInstantiationPointcut = preInstantiationPointcut;
        if (aspectInstanceFactory instanceof LazySingletonAspectInstanceFactoryDecorator) {
            this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
        }
    }

    @Override
    public boolean matches(Method method, Class<?> targetClass) {
        // We're either instantiated and matching on declared pointcut, or uninstantiated matching on either pointcut
        return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass)) ||
            this.preInstantiationPointcut.getMethodMatcher().matches(method, targetClass);
    }

    @Override
    public boolean matches(Method method, Class<?> targetClass, Object[] args) {
        // This can match only on declared pointcut.
        return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass));
    }

    private boolean isAspectMaterialized() {
        return (this.aspectInstanceFactory == null || this.aspectInstanceFactory.isMaterialized());
    }
}
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- */

```
package org.springframework.aop.interceptor;
```

```
import org.aopalliance.intercept.MethodInvocation;
```

```
import org.apache.commons.logging.Log;
```

```
/**
```

```
* Simple AOP Alliance {@code MethodInterceptor} that can be introduced
* in a chain to display verbose trace information about intercepted method
* invocations, with method entry and method exit info.
```

```
*
```

```
* <p>Consider using {@code CustomizableTraceInterceptor} for more
* advanced needs.
```

```
*
```

```
* @author Dmitriy Kopylenko
```

```
* @author Juergen Hoeller
```

```
* @since 1.2
```

```
* @see CustomizableTraceInterceptor
```

```
*/
```

```
@SuppressWarnings("serial")
```

```
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {
```

```
/**
```

```
* Create a new SimpleTraceInterceptor with a static logger.
```

```
*/
```

```
public SimpleTraceInterceptor() {
```

```
}
```

```
/**
```

```
* Create a new SimpleTraceInterceptor with dynamic or static logger,
```

```
* according to the given flag.
```

```
* @param useDynamicLogger whether to use a dynamic logger or a static logger
```

```
* @see #setUseDynamicLogger
```

```
*/
```

```
public SimpleTraceInterceptor(boolean useDynamicLogger) {
```

```
    setUseDynamicLogger(useDynamicLogger);
```

```
}
```

```
@Override
```

```
protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
```

```
    String invocationDescription = getInvocationDescription(invocation);
```

```

logger.trace("Entering " + invocationDescription);
try {
    Object rval = invocation.proceed();
    logger.trace("Exiting " + invocationDescription);
    return rval;
}
catch (Throwable ex) {
    logger.trace("Exception thrown in " + invocationDescription, ex);
    throw ex;
}
}

/**
 * Return a description for the given method invocation.
 * @param invocation the invocation to describe
 * @return the description
 */
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method '" + invocation.getMethod().getName() + "' of class [" +
        invocation.getThis().getClass().getName() + "];
}

}

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 * limitations under the License.
 */

package org.springframework.aop.interceptor;

import java.lang.reflect.Method;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

/**
 * A default {@link AsyncUncaughtExceptionHandler} that simply logs the exception.

```

```

*
* @author Stephane Nicoll
* @since 4.1
*/
public class SimpleAsyncUncaughtExceptionHandler implements AsyncUncaughtExceptionHandler {

    private final Log logger = LogFactory.getLog(SimpleAsyncUncaughtExceptionHandler.class);

    @Override
    public void handleUncaughtException(Throwable ex, Method method, Object... params) {
        if (logger.isDebugEnabled()) {
            logger.error(String.format("Unexpected error occurred invoking async " +
                "method '%s'.", method), ex);
        }
    }
}

```

1.111 spring-beans 4.1.5.RELEASE

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```

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 */

package org.springframework.beans.factory.xml;

import java.util.Collection;

import org.w3c.dom.Attr;
import org.w3c.dom.Element;
import org.w3c.dom.Node;

import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.config.BeanDefinitionHolder;

```



```

import org.springframework.beans.factory.config.ConstructorArgumentValues;
import org.springframework.beans.factory.config.ConstructorArgumentValues.ValueHolder;
import org.springframework.beans.factory.config.RuntimeBeanReference;
import org.springframework.core.Conventions;
import org.springframework.util.StringUtils;

/**
 * Simple {@code NamespaceHandler} implementation that maps custom
 * attributes directly through to bean properties. An important point to note is
 * that this {@code NamespaceHandler} does not have a corresponding schema
 * since there is no way to know in advance all possible attribute names.
 *
 * <p>An example of the usage of this {@code NamespaceHandler} is shown below:
 *
 * <pre class="code">
 * &lt;bean id="author" class="..TestBean" c:name="Enescu" c:work-
 * ref="compositions"/&gt;
 * </pre>
 *
 * Here the '{@code c:name}' corresponds directly to the '{@code name}'
 * ' argument declared on the constructor of class '{@code TestBean}'. The
 * '{@code c:work-ref}' attributes corresponds to the '{@code work}'
 * argument and, rather than being the concrete value, it contains the name of
 * the bean that will be considered as a parameter.
 *
 * <b>Note</b>: This implementation supports only named parameters - there is no
 * support for indexes or types. Further more, the names are used as hints by
 * the container which, by default, does type introspection.
 *
 * @author Costin Leau
 * @since 3.1
 * @see SimplePropertyNamespaceHandler
 */
public class SimpleConstructorNamespaceHandler implements NamespaceHandler {

    private static final String REF_SUFFIX = "-ref";

    private static final String DELIMITER_PREFIX = "_";

    @Override
    public void init() {
    }

    @Override
    public BeanDefinition parse(Element element, ParserContext parserContext) {
        parserContext.getReaderContext().error(
            "Class [" + getClass().getName() + "] does not support custom elements.", element);
    }
}

```

```

return null;
}

@Override
public BeanDefinitionHolder decorate(Node node, BeanDefinitionHolder definition, ParserContext parserContext) {
    if (node instanceof Attr) {
        Attr attr = (Attr) node;
        String argName = StringUtils.trimWhitespace(parserContext.getDelegate().getLocalName(attr));
        String argValue = StringUtils.trimWhitespace(attr.getValue());

        ConstructorArgumentValues cvs = definition.getBeanDefinition().getConstructorArgumentValues();
        boolean ref = false;

        // handle -ref arguments
        if (argName.endsWith(REF_SUFFIX)) {
            ref = true;
            argName = argName.substring(0, argName.length() - REF_SUFFIX.length());
        }

        ValueHolder valueHolder = new ValueHolder(ref ? new RuntimeBeanReference(argValue) : argValue);
        valueHolder.setSource(parserContext.getReaderContext().extractSource(attr));

        // handle "escaped"/"_" arguments
        if (argName.startsWith(DELIMITER_PREFIX)) {
            String arg = argName.substring(1).trim();

            // fast default check
            if (!StringUtils.hasText(arg)) {
                cvs.addGenericArgumentValue(valueHolder);
            }
            // assume an index otherwise
            else {
                int index = -1;
                try {
                    index = Integer.parseInt(arg);
                }
                catch (NumberFormatException ex) {
                    parserContext.getReaderContext().error(
                        "Constructor argument " + argName + " specifies an invalid integer", attr);
                }
                if (index < 0) {
                    parserContext.getReaderContext().error(
                        "Constructor argument " + argName + " specifies a negative index", attr);
                }
            }

            if (cvs.hasIndexedArgumentValue(index)){
                parserContext.getReaderContext().error(
                    "Constructor argument " + argName + " with index "+ index+" already defined using <constructor-arg>." +

```

```

    " Only one approach may be used per argument.", attr);
}

    cvs.addIndexedArgumentValue(index, valueHolder);
}
}
// no escaping -> ctr name
else {
    String name = Conventions.attributeNameToPropertyName(argName);
    if (containsArgWithName(name, cvs)){
        parserContext.getReaderContext().error(
            "Constructor argument '" + argName + "' already defined using <constructor-arg>." +
            " Only one approach may be used per argument.", attr);
    }
    valueHolder.setName(Conventions.attributeNameToPropertyName(argName));
    cvs.addGenericArgumentValue(valueHolder);
}
}
return definition;
}

private boolean containsArgWithName(String name, ConstructorArgumentValues cvs) {
    return (checkName(name, cvs.getGenericArgumentValues()) ||
        checkName(name, cvs.getIndexedArgumentValues().values()));
}

private boolean checkName(String name, Collection<ValueHolder> values) {
    for (ValueHolder holder : values) {
        if (name.equals(holder.getName())) {
            return true;
        }
    }
    return false;
}

}
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```

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*/

```
package org.springframework.beans.factory.xml;
```

```
import org.w3c.dom.Attr;  
import org.w3c.dom.Element;  
import org.w3c.dom.Node;
```

```
import org.springframework.beans.MutablePropertyValues;  
import org.springframework.beans.factory.config.BeanDefinition;  
import org.springframework.beans.factory.config.BeanDefinitionHolder;  
import org.springframework.beans.factory.config.RuntimeBeanReference;  
import org.springframework.core.Conventions;
```

```
/**
```

```
* Simple {@code NamespaceHandler} implementation that maps custom attributes  
* directly through to bean properties. An important point to note is that this  
* {@code NamespaceHandler} does not have a corresponding schema since there  
* is no way to know in advance all possible attribute names.
```

```
*
```

```
* <p>An example of the usage of this {@code NamespaceHandler} is shown below:
```

```
*
```

```
* <pre class="code">
```

```
* &lt;bean id="rob" class="..TestBean" p:name="Rob Harrop" p:spouse-  
ref="sally"/&gt;</pre>
```

```
*
```

```
* Here the '{ @code p:name}' corresponds directly to the '{ @code name}'  
* property on class '{ @code TestBean}'. The '{ @code p:spouse-ref}'  
* attributes corresponds to the '{ @code spouse}' property and, rather  
* than being the concrete value, it contains the name of the bean that will  
* be injected into that property.
```

```
*
```

```
* @author Rob Harrop  
* @author Juergen Hoeller  
* @since 2.0
```

```
*/
```

```
public class SimplePropertyNamespaceHandler implements NamespaceHandler {
```

```
    private static final String REF_SUFFIX = "-ref";
```

```
    @Override  
    public void init() {  
    }
```

```
    @Override
```

```

public BeanDefinition parse(Element element, ParserContext parserContext) {
    parserContext.getReaderContext().error(
        "Class [" + getClass().getName() + "] does not support custom elements.", element);
    return null;
}

@Override
public BeanDefinitionHolder decorate(Node node, BeanDefinitionHolder definition, ParserContext parserContext) {
    if (node instanceof Attr) {
        Attr attr = (Attr) node;
        String propertyName = parserContext.getDelegate().getLocalName(attr);
        String propertyValue = attr.getValue();
        MutablePropertyValues pvs = definition.getBeanDefinition().getPropertyValues();
        if (pvs.contains(propertyName)) {
            parserContext.getReaderContext().error("Property '" + propertyName + "' is already defined using " +
                "both <property> and inline syntax. Only one approach may be used per property.", attr);
        }
        if (propertyName.endsWith(REF_SUFFIX)) {
            propertyName = propertyName.substring(0, propertyName.length() - REF_SUFFIX.length());
            pvs.add(Conventions.attributeNameToPropertyName(propertyName), new
                RuntimeBeanReference(propertyName));
        }
        else {
            pvs.add(Conventions.attributeNameToPropertyName(propertyName), propertyValue);
        }
    }
    return definition;
}

}
/*
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 * limitations under the License.
 */

package org.springframework.beans.factory.xml;

```

```

import org.w3c.dom.Attr;
import org.w3c.dom.Element;
import org.w3c.dom.NamedNodeMap;

import org.springframework.beans.factory.support.BeanDefinitionBuilder;
import org.springframework.core.Conventions;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;

/**
 * Convenient base class for when there exists a one-to-one mapping
 * between attribute names on the element that is to be parsed and
 * the property names on the {@link Class} being configured.
 *
 * <p>Extend this parser class when you want to create a single
 * bean definition from a relatively simple custom XML element. The
 * resulting {@code BeanDefinition} will be automatically
 * registered with the relevant
 * {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}.
 *
 * <p>An example will hopefully make the use of this particular parser
 * class immediately clear. Consider the following class definition:
 *
 * <pre class="code">public class SimpleCache implements Cache {
 *
 *     public void setName(String name) {...}
 *     public void setTimeout(int timeout) {...}
 *     public void setEvictionPolicy(EvictionPolicy policy) {...}
 *
 *     // remaining class definition elided for clarity...
 * }</pre>
 *
 * <p>Then let us assume the following XML tag has been defined to
 * permit the easy configuration of instances of the above class;
 *
 * <pre class="code"><cache name="..." timeout="..." eviction-policy="..."></pre>
 *
 * <p>All that is required of the Java developer tasked with writing
 * the parser to parse the above XML tag into an actual
 * {@code SimpleCache} bean definition is the following:
 *
 * <pre class="code">public class SimpleCacheBeanDefinitionParser extends AbstractSimpleBeanDefinitionParser {
 *
 *     protected Class getBeanClass(Element element) {
 *         return SimpleCache.class;
 *     }
 * }</pre>
 *

```

* <p>Please note that the { @code AbstractSimpleBeanDefinitionParser }
 * is limited to populating the created bean definition with property values.
 * if you want to parse constructor arguments and nested elements from the
 * supplied XML element, then you will have to implement the
 * { @link #postProcess(org.springframework.beans.factory.support.BeanDefinitionBuilder, org.w3c.dom.Element) }
 * method and do such parsing yourself, or (more likely) subclass the
 * { @link AbstractSingleBeanDefinitionParser } or { @link AbstractBeanDefinitionParser }
 * classes directly.
 *
 * <p>The process of actually registering the
 * { @code SimpleCacheBeanDefinitionParser } with the Spring XML parsing
 * infrastructure is described in the Spring Framework reference documentation
 * (in one of the appendices).
 *
 * <p>For an example of this parser in action (so to speak), do look at
 * the source code for the
 * { @link org.springframework.beans.factory.xml.UtilNamespaceHandler.PropertiesBeanDefinitionParser };
 * the observant (and even not so observant) reader will immediately notice that
 * there is next to no code in the implementation. The
 * { @code PropertiesBeanDefinitionParser } populates a
 * { @link org.springframework.beans.factory.config.PropertiesFactoryBean }
 * from an XML element that looks like this:
 *
 * <pre class="code"><util:properties location="jdbc.properties"/></pre>
 *
 * <p>The observant reader will notice that the sole attribute on the
 * { @code <util:properties/> } element matches the
 * { @link
 org.springframework.beans.factory.config.PropertiesFactoryBean#setLocation(org.springframework.core.io.Resource
 e) }
 * method name on the { @code PropertiesFactoryBean } (the general
 * usage thus illustrated holds true for any number of attributes).
 * All that the { @code PropertiesBeanDefinitionParser } needs
 * actually do is supply an implementation of the
 * { @link #getBeanClass(org.w3c.dom.Element) } method to return the
 * { @code PropertiesFactoryBean } type.
 *
 * @author Rob Harrop
 * @author Rick Evans
 * @author Juergen Hoeller
 * @since 2.0
 * @see Conventions#attributeNameToPropertyName(String)
 */
 public abstract class AbstractSimpleBeanDefinitionParser extends AbstractSingleBeanDefinitionParser {

 /**
 * Parse the supplied { @link Element } and populate the supplied
 * { @link BeanDefinitionBuilder } as required.

```

* <p>This implementation maps any attributes present on the
* supplied element to { @link org.springframework.beans.PropertyValue }
* instances, and
* { @link BeanDefinitionBuilder#addPropertyValue(String, Object) adds them }
* to the
* { @link org.springframework.beans.factory.config.BeanDefinition builder}.
* <p>The { @link #extractPropertyName(String)} method is used to
* reconcile the name of an attribute with the name of a JavaBean
* property.
* @param element the XML element being parsed
* @param builder used to define the { @code BeanDefinition }
* @see #extractPropertyName(String)
*/
@Override
protected void doParse(Element element, ParserContext parserContext, BeanDefinitionBuilder builder) {
    NamedNodeMap attributes = element.getAttributes();
    for (int x = 0; x < attributes.getLength(); x++) {
        Attr attribute = (Attr) attributes.item(x);
        if (isEligibleAttribute(attribute, parserContext)) {
            String propertyName = extractPropertyName(attribute.getLocalName());
            Assert.state(StringUtils.hasText(propertyName),
                "Illegal property name returned from 'extractPropertyName(String)': cannot be null or empty.");
            builder.addPropertyValue(propertyName, attribute.getValue());
        }
    }
    postProcess(builder, element);
}

/**
* Determine whether the given attribute is eligible for being
* turned into a corresponding bean property value.
* <p>The default implementation considers any attribute as eligible,
* except for the "id" attribute and namespace declaration attributes.
* @param attribute the XML attribute to check
* @param parserContext the { @code ParserContext }
* @see #isEligibleAttribute(String)
*/
protected boolean isEligibleAttribute(Attr attribute, ParserContext parserContext) {
    boolean eligible = isEligibleAttribute(attribute);
    if (!eligible) {
        String fullName = attribute.getName();
        eligible = (!fullName.equals("xmlns") && !fullName.startsWith("xmlns:")) &&
            isEligibleAttribute(parserContext.getDelegate().getLocalName(attribute));
    }
    return eligible;
}

/**

```



```

* Determine whether the given attribute is eligible for being
* turned into a corresponding bean property value.
* <p>The default implementation considers any attribute as eligible,
* except for the "id" attribute and namespace declaration attributes.
* @param attribute the XML attribute to check
* @see #isEligibleAttribute(String)
* @deprecated in favour of { @link #isEligibleAttribute(org.w3c.dom.Attr, ParserContext)}
*/

@Deprecated
protected boolean isEligibleAttribute(Attr attribute) {
    return false;
}

/**
* Determine whether the given attribute is eligible for being
* turned into a corresponding bean property value.
* <p>The default implementation considers any attribute as eligible,
* except for the "id" attribute.
* @param attributeName the attribute name taken straight from the
* XML element being parsed (never { @code null})
*/
protected boolean isEligibleAttribute(String attributeName) {
    return !ID_ATTRIBUTE.equals(attributeName);
}

/**
* Extract a JavaBean property name from the supplied attribute name.
* <p>The default implementation uses the
* { @link Conventions#attributeNameToPropertyName(String)}
* method to perform the extraction.
* <p>The name returned must obey the standard JavaBean property name
* conventions. For example for a class with a setter method
* '{ @code setBingoHallFavourite(String)}', the name returned had
* better be '{ @code bingoHallFavourite}' (with that exact casing).
* @param attributeName the attribute name taken straight from the
* XML element being parsed (never { @code null})
* @return the extracted JavaBean property name (must never be { @code null})
*/
protected String extractPropertyName(String attributeName) {
    return Conventions.attributeNameToPropertyName(attributeName);
}

/**
* Hook method that derived classes can implement to inspect/change a
* bean definition after parsing is complete.
* <p>The default implementation does nothing.
* @param beanDefinition the parsed (and probably totally defined) bean definition being built
* @param element the XML element that was the source of the bean definition's metadata

```

```

*/
protected void postProcess(BeanDefinitionBuilder beanDefinition, Element element) {
}

}
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* limitations under the License.
*/

package org.springframework.beans.factory.access.el;

import javax.el.ELContext;

import org.springframework.beans.factory.BeanFactory;
import org.springframework.util.Assert;

/**
 * Simple concrete variant of {@link SpringBeanELResolver}, delegating
 * to a given {@link BeanFactory} that the resolver was constructed with.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public class SimpleSpringBeanELResolver extends SpringBeanELResolver {

    private final BeanFactory beanFactory;

    /**
     * Create a new SimpleSpringBeanELResolver for the given BeanFactory.
     * @param beanFactory the Spring BeanFactory to delegate to
     */
    public SimpleSpringBeanELResolver(BeanFactory beanFactory) {
        Assert.notNull(beanFactory, "BeanFactory must not be null");
        this.beanFactory = beanFactory;
    }
}

```

```

@Override
protected BeanFactory getBeanFactory(ELContext elContext) {
    return this.beanFactory;
}

}
/*
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 * limitations under the License.
 */

package org.springframework.beans.factory.support;

import java.security.AccessControlContext;
import java.security.AccessController;

/**
 * Simple {@link SecurityContextProvider} implementation.
 *
 * @author Costin Leau
 * @since 3.0
 */
public class SimpleSecurityContextProvider implements SecurityContextProvider {

    private final AccessControlContext acc;

    /**
     * Construct a new {@code SimpleSecurityContextProvider} instance.
     * <p>The security context will be retrieved on each call from the current
     * thread.
     */
    public SimpleSecurityContextProvider() {
        this(null);
    }
}

```

```

/**
 * Construct a new {@code SimpleSecurityContextProvider} instance.
 * <p>If the given control context is null, the security context will be
 * retrieved on each call from the current thread.
 * @param acc access control context (can be {@code null})
 * @see AccessController#getContext()
 */
public SimpleSecurityContextProvider(AccessControlContext acc) {
    this.acc = acc;
}

@Override
public AccessControlContext getAccessControlContext() {
    return (this.acc != null ? acc : AccessController.getContext());
}

}
/**
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 * limitations under the License.
 */

package org.springframework.beans.factory.support;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;

import org.springframework.beans.BeanInstantiationException;
import org.springframework.beans.BeanUtils;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.util.ReflectionUtils;

```

```

import org.springframework.util.StringUtils;

/**
 * Simple object instantiation strategy for use in a BeanFactory.
 *
 * <p>Does not support Method Injection, although it provides hooks for subclasses
 * to override to add Method Injection support, for example by overriding methods.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 1.1
 */
public class SimpleInstantiationStrategy implements InstantiationStrategy {

    private static final ThreadLocal<Method> currentlyInvokedFactoryMethod = new ThreadLocal<Method>();

    /**
     * Return the factory method currently being invoked or {@code null} if none.
     * <p>Allows factory method implementations to determine whether the current
     * caller is the container itself as opposed to user code.
     */
    public static Method getCurrentlyInvokedFactoryMethod() {
        return currentlyInvokedFactoryMethod.get();
    }

    @Override
    public Object instantiate(RootBeanDefinition bd, String beanName, BeanFactory owner) {
        // Don't override the class with CGLIB if no overrides.
        if (bd.getMethodOverrides().isEmpty()) {
            Constructor<?> constructorToUse;
            synchronized (bd.constructorArgumentLock) {
                constructorToUse = (Constructor<?>) bd.resolvedConstructorOrFactoryMethod;
                if (constructorToUse == null) {
                    final Class<?> clazz = bd.getBeanClass();
                    if (clazz.isInterface()) {
                        throw new BeanInstantiationException(clazz, "Specified class is an interface");
                    }
                    try {
                        if (System.getSecurityManager() != null) {
                            constructorToUse = AccessController.doPrivileged(new PrivilegedExceptionAction<Constructor<?>>() {
                                @Override
                                public Constructor<?> run() throws Exception {
                                    return clazz.getDeclaredConstructor((Class[]) null);
                                }
                            });
                        }
                    }
                }
            }
        }
    }
}

```

```

else {
    constructorToUse = clazz.getDeclaredConstructor((Class[]) null);
}
bd.resolvedConstructorOrFactoryMethod = constructorToUse;
}
catch (Exception ex) {
    throw new BeanInstantiationException(clazz, "No default constructor found", ex);
}
}
return BeanUtils.instantiateClass(constructorToUse);
}
else {
    // Must generate CGLIB subclass.
    return instantiateWithMethodInjection(bd, beanName, owner);
}
}

/**
 * Subclasses can override this method, which is implemented to throw
 * UnsupportedOperationException, if they can instantiate an object with
 * the Method Injection specified in the given RootBeanDefinition.
 * Instantiation should use a no-arg constructor.
 */
protected Object instantiateWithMethodInjection(RootBeanDefinition bd, String beanName, BeanFactory owner) {
    throw new UnsupportedOperationException("Method Injection not supported in SimpleInstantiationStrategy");
}

@Override
public Object instantiate(RootBeanDefinition bd, String beanName, BeanFactory owner,
    final Constructor<?> ctor, Object... args) {

    if (bd.getMethodOverrides().isEmpty()) {
        if (System.getSecurityManager() != null) {
            // use own privileged to change accessibility (when security is on)
            AccessController.doPrivileged(new PrivilegedAction<Object>() {
                @Override
                public Object run() {
                    ReflectionUtils.makeAccessible(ctor);
                    return null;
                }
            });
        }
        return BeanUtils.instantiateClass(ctor, args);
    }
    else {
        return instantiateWithMethodInjection(bd, beanName, owner, ctor, args);
    }
}

```

```

}

/**
 * Subclasses can override this method, which is implemented to throw
 * UnsupportedOperationException, if they can instantiate an object with
 * the Method Injection specified in the given RootBeanDefinition.
 * Instantiation should use the given constructor and parameters.
 */
protected Object instantiateWithMethodInjection(RootBeanDefinition bd, String beanName, BeanFactory owner,
    Constructor<?> ctor, Object... args) {

    throw new UnsupportedOperationException("Method Injection not supported in SimpleInstantiationStrategy");
}

@Override
public Object instantiate(RootBeanDefinition bd, String beanName, BeanFactory owner,
    Object factoryBean, final Method factoryMethod, Object... args) {

    try {
        if (System.getSecurityManager() != null) {
            AccessController.doPrivileged(new PrivilegedAction<Object>() {
                @Override
                public Object run() {
                    ReflectionUtils.makeAccessible(factoryMethod);
                    return null;
                }
            });
        }
        else {
            ReflectionUtils.makeAccessible(factoryMethod);
        }

        Method priorInvokedFactoryMethod = currentlyInvokedFactoryMethod.get();
        try {
            currentlyInvokedFactoryMethod.set(factoryMethod);
            return factoryMethod.invoke(factoryBean, args);
        }
        finally {
            if (priorInvokedFactoryMethod != null) {
                currentlyInvokedFactoryMethod.set(priorInvokedFactoryMethod);
            }
            else {
                currentlyInvokedFactoryMethod.remove();
            }
        }
    }
    catch (IllegalArgumentException ex) {
        throw new BeanInstantiationException(factoryMethod.getReturnType(),

```

```

        "Illegal arguments to factory method " + factoryMethod.getName() + "; " +
        "args: " + StringUtils.arrayToCommaDelimitedString(args), ex);
    }
    catch (IllegalAccessException ex) {
        throw new BeanInstantiationException(factoryMethod.getReturnType(),
            "Cannot access factory method " + factoryMethod.getName() + "; is it public?", ex);
    }
    catch (InvocationTargetException ex) {
        String msg = "Factory method " + factoryMethod.getName() + " threw exception";
        if (bd.getFactoryBeanName() != null && owner instanceof ConfigurableBeanFactory &&
            ((ConfigurableBeanFactory) owner).isCurrentlyInCreation(bd.getFactoryBeanName())) {
            msg = "Circular reference involving containing bean " + bd.getFactoryBeanName() + " - consider " +
                "declaring the factory method as static for independence from its containing instance. " + msg;
        }
        throw new BeanInstantiationException(factoryMethod.getReturnType(), msg, ex.getTargetException());
    }
}

}
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 */

package org.springframework.beans.factory.support;

import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import org.springframework.beans.factory.BeanDefinitionStoreException;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.core.SimpleAliasRegistry;
import org.springframework.util.Assert;
import org.springframework.util.StringUtils;

/**

```


- * Simple implementation of the { @link BeanDefinitionRegistry } interface.
- * Provides registry capabilities only, with no factory capabilities built in.
- * Can for example be used for testing bean definition readers.
- *
- * @author Juergen Hoeller
- * @since 2.5.2
- */

```
public class SimpleBeanDefinitionRegistry extends SimpleAliasRegistry implements BeanDefinitionRegistry {
```

```
    /** Map of bean definition objects, keyed by bean name */
    private final Map<String, BeanDefinition> beanDefinitionMap = new ConcurrentHashMap<String,
    BeanDefinition>(64);
```

```
    @Override
```

```
    public void registerBeanDefinition(String beanName, BeanDefinition beanDefinition)
        throws BeanDefinitionStoreException {
```

```
        Assert.hasText(beanName, "'beanName' must not be empty");
        Assert.notNull(beanDefinition, "BeanDefinition must not be null");
        this.beanDefinitionMap.put(beanName, beanDefinition);
    }
```

```
    @Override
```

```
    public void removeBeanDefinition(String beanName) throws NoSuchBeanDefinitionException {
        if (this.beanDefinitionMap.remove(beanName) == null) {
            throw new NoSuchBeanDefinitionException(beanName);
        }
    }
```

```
    @Override
```

```
    public BeanDefinition getBeanDefinition(String beanName) throws NoSuchBeanDefinitionException {
        BeanDefinition bd = this.beanDefinitionMap.get(beanName);
        if (bd == null) {
            throw new NoSuchBeanDefinitionException(beanName);
        }
        return bd;
    }
```

```
    @Override
```

```
    public boolean containsBeanDefinition(String beanName) {
        return this.beanDefinitionMap.containsKey(beanName);
    }
```

```
    @Override
```

```
    public String[] getBeanDefinitionNames() {
        return StringUtils.toStringArray(this.beanDefinitionMap.keySet());
    }
```

```

@Override
public int getBeanDefinitionCount() {
    return this.beanDefinitionMap.size();
}

@Override
public boolean isBeanNameInUse(String beanName) {
    return isAlias(beanName) || containsBeanDefinition(beanName);
}

}
/*
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 * limitations under the License.
 */

package org.springframework.beans.factory.support;

import java.util.ArrayList;
import java.util.List;

import org.springframework.beans.BeanMetadataElement;
import org.springframework.beans.Mergeable;

/**
 * Tag collection class used to hold managed List elements, which may
 * include runtime bean references (to be resolved into bean objects).
 *
 * @author Rod Johnson
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 27.05.2003
 */
@SuppressWarnings("serial")
public class ManagedList<E> extends ArrayList<E> implements Mergeable, BeanMetadataElement {

```

```

private Object source;

private String elementTypeName;

private boolean mergeEnabled;

public ManagedList() {
}

public ManagedList(int initialCapacity) {
    super(initialCapacity);
}

/**
 * Set the configuration source {@code Object} for this metadata element.
 * <p>The exact type of the object will depend on the configuration mechanism used.
 */
public void setSource(Object source) {
    this.source = source;
}

@Override
public Object getSource() {
    return this.source;
}

/**
 * Set the default element type name (class name) to be used for this list.
 */
public void setElementTypeName(String elementTypeName) {
    this.elementTypeName = elementTypeName;
}

/**
 * Return the default element type name (class name) to be used for this list.
 */
public String getElementTypeName() {
    return this.elementTypeName;
}

/**
 * Set whether merging should be enabled for this collection,
 * in case of a 'parent' collection value being present.
 */
public void setMergeEnabled(boolean mergeEnabled) {
    this.mergeEnabled = mergeEnabled;
}

```

```

}

@Override
public boolean isMergeEnabled() {
    return this.mergeEnabled;
}

@Override
@SuppressWarnings("unchecked")
public List<E> merge(Object parent) {
    if (!this.mergeEnabled) {
        throw new IllegalStateException("Not allowed to merge when the 'mergeEnabled' property is set to 'false'");
    }
    if (parent == null) {
        return this;
    }
    if (!(parent instanceof List)) {
        throw new IllegalArgumentException("Cannot merge with object of type [" + parent.getClass() + "]");
    }
    List<E> merged = new ManagedList<E>();
    merged.addAll((List<E>) parent);
    merged.addAll(this);
    return merged;
}

}
/*
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 */

package org.springframework.beans.factory.support;

import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.config.BeanDefinitionHolder;
import org.springframework.beans.factory.config.DependencyDescriptor;

```

```

/**
 * {@link AutowireCandidateResolver} implementation to use when no annotation
 * support is available. This implementation checks the bean definition only.
 *
 * @author Mark Fisher
 * @author Juergen Hoeller
 * @since 2.5
 * @see BeanDefinition#isAutowireCandidate()
 */
public class SimpleAutowireCandidateResolver implements AutowireCandidateResolver {

    /**
     * Determine if the provided bean definition is an autowire candidate.
     * <p>To be considered a candidate the bean's <em>autowire-candidate</em>
     * attribute must not have been set to 'false'.
     */
    @Override
    public boolean isAutowireCandidate(BeanDefinitionHolder bdHolder, DependencyDescriptor descriptor) {
        return bdHolder.getBeanDefinition().isAutowireCandidate();
    }

    @Override
    public Object getSuggestedValue(DependencyDescriptor descriptor) {
        return null;
    }

    @Override
    public Object getLazyResolutionProxyIfNecessary(DependencyDescriptor descriptor, String beanName) {
        return null;
    }

}

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 */

```

```

package org.springframework.beans.factory.support;

import java.lang.reflect.Method;
import java.util.LinkedList;
import java.util.List;

import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;

/**
 * Extension of MethodOverride that represents an arbitrary
 * override of a method by the IoC container.
 *
 * <p>Any non-final method can be overridden, irrespective of its
 * parameters and return types.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 1.1
 */
public class ReplaceOverride extends MethodOverride {

    private final String methodReplacerBeanName;

    private List<String> typeIdentifiers = new LinkedList<String>();

    /**
     * Construct a new ReplaceOverride.
     * @param methodName the name of the method to override
     * @param methodReplacerBeanName the bean name of the MethodReplacer
     */
    public ReplaceOverride(String methodName, String methodReplacerBeanName) {
        super(methodName);
        Assert.notNull(methodName, "Method replacer bean name must not be null");
        this.methodReplacerBeanName = methodReplacerBeanName;
    }

    /**
     * Return the name of the bean implementing MethodReplacer.
     */
    public String getMethodReplacerBeanName() {
        return this.methodReplacerBeanName;
    }

    /**
     * Add a fragment of a class string, like "Exception"

```

```

* or "java.lang.Exc", to identify a parameter type.
* @param identifier a substring of the fully qualified class name
*/
public void addTypeIdentifier(String identifier) {
    this.typeIdentifiers.add(identifier);
}

@Override
public boolean matches(Method method) {
    if (!method.getName().equals(getMethodName())) {
        return false;
    }
    if (!isOverloaded()) {
        // Not overloaded: don't worry about arg type matching...
        return true;
    }
    // If we get here, we need to insist on precise argument matching...
    if (this.typeIdentifiers.size() != method.getParameterTypes().length) {
        return false;
    }
    for (int i = 0; i < this.typeIdentifiers.size(); i++) {
        String identifier = this.typeIdentifiers.get(i);
        if (!method.getParameterTypes()[i].getName().contains(identifier)) {
            return false;
        }
    }
    return true;
}

@Override
public boolean equals(Object other) {
    if (!(other instanceof ReplaceOverride) || !super.equals(other)) {
        return false;
    }
    ReplaceOverride that = (ReplaceOverride) other;
    return (ObjectUtils.nullSafeEquals(this.methodReplacerBeanName, that.methodReplacerBeanName) &&
        ObjectUtils.nullSafeEquals(this.typeIdentifiers, that.typeIdentifiers));
}

@Override
public int hashCode() {
    int hashCode = super.hashCode();
    hashCode = 29 * hashCode + ObjectUtils.nullSafeHashCode(this.methodReplacerBeanName);
    hashCode = 29 * hashCode + ObjectUtils.nullSafeHashCode(this.typeIdentifiers);
    return hashCode;
}

```

```

@Override
public String toString() {
    return "Replace override for method '" + getMethodName() + "'";
}

}
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 */

package org.springframework.beans.factory.support;

import java.lang.reflect.Method;

/**
 * Interface to be implemented by classes that can reimplement any method
 * on an IoC-managed object: the <b>Method Injection</b> form of
 * Dependency Injection.
 *
 * <p>Such methods may be (but need not be) abstract, in which case the
 * container will create a concrete subclass to instantiate.
 *
 * @author Rod Johnson
 * @since 1.1
 */
public interface MethodReplacer {

    /**
     * Reimplement the given method.
     * @param obj the instance we're reimplementing the method for
     * @param method the method to reimplement
     * @param args arguments to the method
     * @return return value for the method
     */
    Object reimplement(Object obj, Method method, Object[] args) throws Throwable;
}

```



```
}
```

1.112 spring-boot-autoconfigure

1.5.7.RELEASE

1.113 spring-context 4.1.5.RELEASE

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 */
```

```
package org.springframework.cache.support;
```

```
import java.util.Collection;
```

```
import org.springframework.cache.Cache;
```

```
/**
 * Simple cache manager working against a given collection of caches.
 * Useful for testing or simple caching declarations.
 *
 * @author Costin Leau
 * @since 3.1
 */
public class SimpleCacheManager extends AbstractCacheManager {

    private Collection<? extends Cache> caches;

    /**
```

```

* Specify the collection of Cache instances to use for this CacheManager.
*/
public void setCaches(Collection<? extends Cache> caches) {
    this.caches = caches;
}

@Override
protected Collection<? extends Cache> loadCaches() {
    return this.caches;
}

}
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* limitations under the License.
*/

package org.springframework.cache.support;

import org.springframework.cache.Cache.ValueWrapper;

/**
* Straightforward implementation of {@link org.springframework.cache.Cache.ValueWrapper},
* simply holding the value as given at construction and returning it from {@link #get()}.
*
* @author Costin Leau
* @since 3.1
*/
public class SimpleValueWrapper implements ValueWrapper {

    private final Object value;

    /**
* Create a new SimpleValueWrapper instance for exposing the given value.
* @param value the value to expose (may be {@code null})
*/

```

```

public SimpleValueWrapper(Object value) {
    this.value = value;
}

/**
 * Simply returns the value as given at construction time.
 */
@Override
public Object get() {
    return this.value;
}

}

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 */

package org.springframework.cache.interceptor;

import java.util.Collection;

import org.springframework.cache.Cache;
import org.springframework.cache.CacheManager;

/**
 * A simple { @link CacheResolver } that resolves the { @link Cache } instance(s)
 * based on a configurable { @link CacheManager } and the name of the
 * cache(s) as provided by { @link BasicOperation#getCacheNames() getCacheNames() }
 *
 * @author Stephane Nicoll
 * @since 4.1
 * @see BasicOperation#getCacheNames()
 */
public class SimpleCacheResolver extends AbstractCacheResolver {

```

```

public SimpleCacheResolver() {
}

public SimpleCacheResolver(CacheManager cacheManager) {
    super(cacheManager);
}

@Override
protected Collection<String> getCacheNames(CacheOperationInvocationContext<?> context) {
    return context.getOperation().getCacheNames();
}

}

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 * limitations under the License.
 */

package org.springframework.cache.interceptor;

import java.lang.reflect.Method;

/**
 * Simple key generator. Returns the parameter itself if a single non-null value
 * is given, otherwise returns a {@link SimpleKey} of the parameters.
 *
 * <p>Unlike {@link DefaultKeyGenerator}, no collisions will occur with the keys
 * generated by this class. The returned {@link SimpleKey} object can be safely
 * used with a {@link org.springframework.cache.concurrent.ConcurrentMapCache},
 * however, might not be suitable for all {@link org.springframework.cache.Cache}
 * implementations.
 *
 * @author Phillip Webb
 * @author Juergen Hoeller
 * @since 4.0
 * @see SimpleKey
 * @see DefaultKeyGenerator

```

```

* @see org.springframework.cache.annotation.CachingConfigurer
*/
public class SimpleKeyGenerator implements KeyGenerator {

    @Override
    public Object generate(Object target, Method method, Object... params) {
        return generateKey(params);
    }

    /**
     * Generate a key based on the specified parameters.
     */
    public static Object generateKey(Object... params) {
        if (params.length == 0) {
            return SimpleKey.EMPTY;
        }
        if (params.length == 1) {
            Object param = params[0];
            if (param != null && !param.getClass().isArray()) {
                return param;
            }
        }
        return new SimpleKey(params);
    }

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     * limitations under the License.
     */

    package org.springframework.cache.interceptor;

    import java.io.Serializable;
    import java.util.Arrays;

    import org.springframework.util.Assert;

```

```

import org.springframework.util.StringUtils;

/**
 * A simple key as returned from the {@link SimpleKeyGenerator}.
 *
 * @author Phillip Webb
 * @since 4.0
 * @see SimpleKeyGenerator
 */
@SuppressWarnings("serial")
public class SimpleKey implements Serializable {

    public static final SimpleKey EMPTY = new SimpleKey();

    private final Object[] params;
    private final int hashCode;

    /**
     * Create a new {@link SimpleKey} instance.
     * @param elements the elements of the key
     */
    public SimpleKey(Object... elements) {
        Assert.notNull(elements, "Elements must not be null");
        this.params = new Object[elements.length];
        System.arraycopy(elements, 0, this.params, 0, elements.length);
        this.hashCode = Arrays.deepHashCode(this.params);
    }

    @Override
    public boolean equals(Object obj) {
        return (this == obj || (obj instanceof SimpleKey
            && Arrays.deepEquals(this.params, ((SimpleKey) obj).params)));
    }

    @Override
    public final int hashCode() {
        return hashCode;
    }

    @Override
    public String toString() {
        return getClass().getSimpleName() + " [" + StringUtils.arrayToCommaDelimitedString(this.params) + "];"
    }

}
/**
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```

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*/
```

```
package org.springframework.cache.interceptor;
```

```
import org.springframework.cache.Cache;
```

```
/**
```

```
* A simple { @link CacheErrorHandler } that does not handle the
* exception at all, simply throwing it back at the client.
```

```
*
```

```
* @author Stephane Nicoll
```

```
* @since 4.1
```

```
*/
```

```
public class SimpleCacheErrorHandler implements CacheErrorHandler {
```

```
    @Override
```

```
    public void handleCacheGetError(RuntimeException exception, Cache cache, Object key) {
        throw exception;
    }
```

```
    @Override
```

```
    public void handleCachePutError(RuntimeException exception, Cache cache, Object key, Object value) {
        throw exception;
    }
```

```
    @Override
```

```
    public void handleCacheEvictError(RuntimeException exception, Cache cache, Object key) {
        throw exception;
    }
```

```
    @Override
```

```
    public void handleCacheClearError(RuntimeException exception, Cache cache) {
        throw exception;
    }
}
```

```

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 */

```

```
package org.springframework.ejb.access;
```

```
import java.lang.reflect.InvocationTargetException;
import java.rmi.RemoteException;
import javax.ejb.CreateException;
import javax.ejb.EJBObject;
import javax.naming.NamingException;
```

```
import org.aopalliance.intercept.MethodInvocation;
```

```
import org.springframework.beans.factory.DisposableBean;
import org.springframework.remoting.RemoteLookupFailureException;
import org.springframework.remoting.rmi.RmiClientInterceptorUtils;
```

```

/**
 * Basic invoker for a remote Stateless Session Bean.
 * Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
 *
 * <p>"Creates" a new EJB instance for each invocation, or caches the session
 * bean instance for all invocations (see { @link #setCacheSessionBean}).
 * See { @link org.springframework.jndi.JndiObjectLocator} for info on
 * how to specify the JNDI location of the target EJB.
 *
 * <p>In a bean container, this class is normally best used as a singleton. However,
 * if that bean container pre-instantiates singletons (as do the XML ApplicationContext
 * variants) you may have a problem if the bean container is loaded before the EJB
 * container loads the target EJB. That is because by default the JNDI lookup will be
 * performed in the init method of this class and cached, but the EJB will not have been
 * bound at the target location yet. The best solution is to set the "lookupHomeOnStartup"
 * property to "false", in which case the home will be fetched on first access to the EJB.
 * (This flag is only true by default for backwards compatibility reasons).
 */

```



```

* <p>This invoker is typically used with an RMI business interface, which serves
* as super-interface of the EJB component interface. Alternatively, this invoker
* can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
* interface that mirrors the EJB business methods but does not declare RemoteExceptions.
* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
* converted to Spring's unchecked RemoteAccessException.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @since 09.05.2003
* @see org.springframework.remoting.RemoteAccessException
* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup
* @see AbstractSlsbInvokerInterceptor#setCacheHome
* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/
public class SimpleRemoteSlsbInvokerInterceptor extends AbstractRemoteSlsbInvokerInterceptor
implements DisposableBean {

    private boolean cacheSessionBean = false;

    private Object beanInstance;

    private final Object beanInstanceMonitor = new Object();

    /**
     * Set whether to cache the actual session bean object.
     * <p>Off by default for standard EJB compliance. Turn this flag
     * on to optimize session bean access for servers that are
     * known to allow for caching the actual session bean object.
     * @see #setCacheHome
     */
    public void setCacheSessionBean(boolean cacheSessionBean) {
        this.cacheSessionBean = cacheSessionBean;
    }

    /**
     * This implementation "creates" a new EJB instance for each invocation.
     * Can be overridden for custom invocation strategies.
     * <p>Alternatively, override { @link #getSessionBeanInstance } and
     * { @link #releaseSessionBeanInstance } to change EJB instance creation,
     * for example to hold a single shared EJB component instance.
     */
    @Override
    protected Object doInvoke(MethodInvocation invocation) throws Throwable {
        Object ejb = null;
        try {

```

```

   .ejb = getSessionBeanInstance();
    return RmiClientInterceptorUtils.invokeRemoteMethod(invocation,.ejb);
}
catch (NamingException ex) {
    throw new RemoteLookupFailureException("Failed to locate remote EJB [" + getJndiName() + "]", ex);
}
catch (InvocationTargetException ex) {
    Throwable targetEx = ex.getTargetException();
    if (targetEx instanceof RemoteException) {
        RemoteException rex = (RemoteException) targetEx;
        throw RmiClientInterceptorUtils.convertRmiAccessException(
            invocation.getMethod(), rex, isConnectFailure(rex), getJndiName());
    }
    else if (targetEx instanceof CreateException) {
        throw RmiClientInterceptorUtils.convertRmiAccessException(
            invocation.getMethod(), targetEx, "Could not create remote EJB [" + getJndiName() + "]);
    }
    throw targetEx;
}
finally {
    if (ejb instanceof EJBObject) {
        releaseSessionBeanInstance((EJBObject) ejb);
    }
}
}

/**
 * Return an EJB component instance to delegate the call to.
 * <p>The default implementation delegates to { @link #newSessionBeanInstance}.
 * @return the EJB component instance
 * @throws NamingException if thrown by JNDI
 * @throws InvocationTargetException if thrown by the create method
 * @see #newSessionBeanInstance
 */
protected Object getSessionBeanInstance() throws NamingException, InvocationTargetException {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance == null) {
                this.beanInstance = newSessionBeanInstance();
            }
            return this.beanInstance;
        }
    }
    else {
        return newSessionBeanInstance();
    }
}
}

```

```

/**
 * Release the given EJB instance.
 * <p>The default implementation delegates to {@link #removeSessionBeanInstance}.
 * @param ejb the EJB component instance to release
 * @see #removeSessionBeanInstance
 */
protected void releaseSessionBeanInstance(EJBObject ejb) {
    if (!this.cacheSessionBean) {
        removeSessionBeanInstance(ejb);
    }
}

/**
 * Reset the cached session bean instance, if necessary.
 */
@Override
protected void refreshHome() throws NamingException {
    super.refreshHome();
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            this.beanInstance = null;
        }
    }
}

/**
 * Remove the cached session bean instance, if necessary.
 */
@Override
public void destroy() {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance instanceof EJBObject) {
                removeSessionBeanInstance((EJBObject) this.beanInstance);
            }
        }
    }
}

}

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* limitations under the License.
*/
```

```
package org.springframework.ejb.access;
```

```
import javax.naming.NamingException;
```

```
import org.springframework.aop.framework.ProxyFactory;
import org.springframework.beans.factory.BeanClassLoaderAware;
import org.springframework.beans.factory.FactoryBean;
import org.springframework.util.ClassUtils;
```

```
/**
```

```
* Convenient { @link FactoryBean } for remote SLSB proxies.
* Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
*
* <p>See { @link org.springframework.jndi.JndiObjectLocator } for info on
* how to specify the JNDI location of the target EJB.
*
* <p>If you want control over interceptor chaining, use an AOP ProxyFactoryBean
* with SimpleRemoteSlsbInvokerInterceptor rather than rely on this class.
*
* <p>In a bean container, this class is normally best used as a singleton. However,
* if that bean container pre-instantiates singletons (as do the XML ApplicationContext
* variants) you may have a problem if the bean container is loaded before the EJB
* container loads the target EJB. That is because by default the JNDI lookup will be
* performed in the init method of this class and cached, but the EJB will not have been
* bound at the target location yet. The best solution is to set the lookupHomeOnStartup
* property to false, in which case the home will be fetched on first access to the EJB.
* (This flag is only true by default for backwards compatibility reasons).
*
* <p>This proxy factory is typically used with an RMI business interface, which serves
* as super-interface of the EJB component interface. Alternatively, this factory
* can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
* interface that mirrors the EJB business methods but does not declare RemoteExceptions.
* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
* converted to Spring's unchecked RemoteAccessException.
*
* @author Rod Johnson
* @author Colin Sampaleanu
* @author Juergen Hoeller
* @since 09.05.2003
* @see org.springframework.remoting.RemoteAccessException
```

```

* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup
* @see AbstractSlsbInvokerInterceptor#setCacheHome
* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/
public class SimpleRemoteStatelessSessionProxyFactoryBean extends SimpleRemoteSlsbInvokerInterceptor
implements FactoryBean<Object>, BeanClassLoaderAware {

    /** The business interface of the EJB we're proxying */
    private Class<?> businessInterface;

    private ClassLoader beanClassLoader = ClassUtils.getDefaultClassLoader();

    /** EJBOject */
    private Object proxy;

    /**
     * Set the business interface of the EJB we're proxying.
     * This will normally be a super-interface of the EJB remote component interface.
     * Using a business methods interface is a best practice when implementing EJBs.
     * <p>You can also specify a matching non-RMI business interface, i.e. an interface
     * that mirrors the EJB business methods but does not declare RemoteExceptions.
     * In this case, RemoteExceptions thrown by the EJB stub will automatically get
     * converted to Spring's generic RemoteAccessException.
     * @param businessInterface the business interface of the EJB
     */
    public void setBusinessInterface(Class<?> businessInterface) {
        this.businessInterface = businessInterface;
    }

    /**
     * Return the business interface of the EJB we're proxying.
     */
    public Class<?> getBusinessInterface() {
        return this.businessInterface;
    }

    @Override
    public void setBeanClassLoader(ClassLoader classLoader) {
        this.beanClassLoader = classLoader;
    }

    @Override
    public void afterPropertiesSet() throws NamingException {
        super.afterPropertiesSet();
        if (this.businessInterface == null) {
            throw new IllegalArgumentException("businessInterface is required");
        }
    }
}

```

```

this.proxy = new ProxyFactory(this.businessInterface, this).getProxy(this.beanClassLoader);
}

@Override
public Object getObject() {
    return this.proxy;
}

@Override
public Class<?> getObjectType() {
    return this.businessInterface;
}

@Override
public boolean isSingleton() {
    return true;
}

}
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 */

package org.springframework.context.i18n;

import java.util.Locale;

/**
 * Simple implementation of the {@link LocaleContext} interface,
 * always returning a specified {@code Locale}.
 *
 * @author Juergen Hoeller
 * @since 1.2
 * @see LocaleContextHolder#setLocaleContext
 * @see LocaleContextHolder#getLocale()

```

```

* @see SimpleTimeZoneAwareLocaleContext
*/
public class SimpleLocaleContext implements LocaleContext {

    private final Locale locale;

    /**
     * Create a new SimpleLocaleContext that exposes the specified Locale.
     * Every {@link #getLocale()} call will return this Locale.
     * @param locale the Locale to expose
     */
    public SimpleLocaleContext(Locale locale) {
        this.locale = locale;
    }

    @Override
    public Locale getLocale() {
        return this.locale;
    }

    @Override
    public String toString() {
        return (this.locale != null ? this.locale.toString() : "-");
    }

}

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 */

package org.springframework.context.i18n;

import java.util.Locale;
import java.util.TimeZone;

```

```

/**
 * Simple implementation of the { @link TimeZoneAwareLocaleContext } interface,
 * always returning a specified { @code Locale } and { @code TimeZone }.
 *
 * <p>Note: Prefer the use of { @link SimpleLocaleContext } when only setting
 * a Locale but no TimeZone.
 *
 * @author Juergen Hoeller
 * @author Nicholas Williams
 * @since 4.0
 * @see LocaleContextHolder#setLocaleContext
 * @see LocaleContextHolder#getTimeZone()
 */
public class SimpleTimeZoneAwareLocaleContext extends SimpleLocaleContext implements
    TimeZoneAwareLocaleContext {

    private final TimeZone timeZone;

    /**
     * Create a new SimpleTimeZoneAwareLocaleContext that exposes the specified
     * Locale and TimeZone. Every { @link #getLocale() } call will return the given
     * Locale, and every { @link #getTimeZone() } call will return the given TimeZone.
     * @param locale the Locale to expose
     * @param timeZone the TimeZone to expose
     */
    public SimpleTimeZoneAwareLocaleContext(Locale locale, TimeZone timeZone) {
        super(locale);
        this.timeZone = timeZone;
    }

    public TimeZone getTimeZone() {
        return this.timeZone;
    }

    @Override
    public String toString() {
        return super.toString() + " " + (this.timeZone != null ? this.timeZone.toString() : "-");
    }

}
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*/

package org.springframework.context.event;

import java.util.concurrent.Executor;

import org.springframework.beans.factory.BeanFactory;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.util.ErrorHandler;

/**
 * Simple implementation of the {@link ApplicationEventMulticaster} interface.
 *
 * <p>Multicasts all events to all registered listeners, leaving it up to
 * the listeners to ignore events that they are not interested in.
 * Listeners will usually perform corresponding {@code instanceof}
 * checks on the passed-in event object.
 *
 * <p>By default, all listeners are invoked in the calling thread.
 * This allows the danger of a rogue listener blocking the entire application,
 * but adds minimal overhead. Specify an alternative task executor to have
 * listeners executed in different threads, for example from a thread pool.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see #setTaskExecutor
 */
public class SimpleApplicationEventMulticaster extends AbstractApplicationEventMulticaster {

    private Executor taskExecutor;

    private ErrorHandler errorHandler;

    /**
     * Create a new SimpleApplicationEventMulticaster.
     */
    public SimpleApplicationEventMulticaster() {
    }

```

```

/**
 * Create a new SimpleApplicationEventMulticaster for the given BeanFactory.
 */
public SimpleApplicationEventMulticaster(BeanFactory beanFactory) {
    setBeanFactory(beanFactory);
}

/**
 * Set a custom executor (typically a {@link org.springframework.core.task.TaskExecutor})
 * to invoke each listener with.
 * <p>Default is equivalent to {@link org.springframework.core.task.SyncTaskExecutor},
 * executing all listeners synchronously in the calling thread.
 * <p>Consider specifying an asynchronous task executor here to not block the
 * caller until all listeners have been executed. However, note that asynchronous
 * execution will not participate in the caller's thread context (class loader,
 * transaction association) unless the TaskExecutor explicitly supports this.
 * @see org.springframework.core.task.SyncTaskExecutor
 * @see org.springframework.core.task.SimpleAsyncTaskExecutor
 */
public void setTaskExecutor(Executor taskExecutor) {
    this.taskExecutor = taskExecutor;
}

/**
 * Return the current task executor for this multicaster.
 */
protected Executor getTaskExecutor() {
    return this.taskExecutor;
}

/**
 * Set the {@link ErrorHandler} to invoke in case an exception is thrown
 * from a listener.
 * <p>Default is none, with a listener exception stopping the current
 * multicast and getting propagated to the publisher of the current event.
 * If a {@linkplain #setTaskExecutor task executor} is specified, each
 * individual listener exception will get propagated to the executor but
 * won't necessarily stop execution of other listeners.
 * <p>Consider setting an {@link ErrorHandler} implementation that catches
 * and logs exceptions (a la
 * {@link org.springframework.scheduling.support.TaskUtils#LOG_AND_SUPPRESS_ERROR_HANDLER})
 * or an implementation that logs exceptions while nevertheless propagating them
 * (e.g. {@link
org.springframework.scheduling.support.TaskUtils#LOG_AND_PROPAGATE_ERROR_HANDLER}).
 * @since 4.1
 */

```

```

public void setErrorHandler(ErrorHandler errorHandler) {
    this.errorHandler = errorHandler;
}

/**
 * Return the current error handler for this multicaster.
 * @since 4.1
 */
protected ErrorHandler getErrorHandler() {
    return this.errorHandler;
}

@Override
public void multicastEvent(final ApplicationEvent event) {
    for (final ApplicationListener<?> listener : getApplicationListeners(event)) {
        Executor executor = getTaskExecutor();
        if (executor != null) {
            executor.execute(new Runnable() {
                @Override
                public void run() {
                    invokeListener(listener, event);
                }
            });
        }
        else {
            invokeListener(listener, event);
        }
    }
}

/**
 * Invoke the given listener with the given event.
 * @param listener the ApplicationListener to invoke
 * @param event the current event to propagate
 * @since 4.1
 */
@SuppressWarnings({"unchecked", "rawtypes"})
protected void invokeListener(ApplicationListener listener, ApplicationEvent event) {
    ErrorHandler errorHandler = getErrorHandler();
    if (errorHandler != null) {
        try {
            listener.onApplicationEvent(event);
        }
        catch (Throwable err) {
            errorHandler.handleError(err);
        }
    }
}

```

```
else {  
    listener.onApplicationEvent(event);  
}  
}  
  
}
```

1.114 spring-context-support 4.0.9.RELEASE

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1.115 spring-core 4.1.5.RELEASE

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*/
```

```
package org.springframework.expression.spel.ast;
```

```
import java.lang.reflect.Constructor;
import java.lang.reflect.Member;
import java.lang.reflect.Method;
```

```
import org.springframework.asm.MethodVisitor;
import org.springframework.asm.Opcodes;
import org.springframework.expression.EvaluationException;
import org.springframework.expression.TypedValue;
import org.springframework.expression.common.ExpressionUtils;
import org.springframework.expression.spel.CodeFlow;
import org.springframework.expression.spel.ExpressionState;
import org.springframework.expression.spel.SpelEvaluationException;
import org.springframework.expression.spel.SpelMessage;
import org.springframework.expression.spel.SpelNode;
import org.springframework.expression.spel.support.StandardEvaluationContext;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;
```

```
/**
```

```
 * The common supertype of all AST nodes in a parsed Spring Expression Language
 * format expression.
```

```
 *
```

```
 * @author Andy Clement
```

```
 * @since 3.0
```

```
*/
```

```
public abstract class SpelNodeImpl implements SpelNode, Opcodes {
```

```
    private static SpelNodeImpl[] NO_CHILDREN = new SpelNodeImpl[0];
```

```
    protected int pos; // start = top 16bits, end = bottom 16bits
```

```
    protected SpelNodeImpl[] children = SpelNodeImpl.NO_CHILDREN;
```

```
    private SpelNodeImpl parent;
```

```
/**
```

```
 * Indicates the type descriptor for the result of this expression node.
```

```
 * This is set as soon as it is known. For a literal node it is known immediately.
```

```
 * For a property access or method invocation it is known after one evaluation of
 * that node.
```

```
 * <p>The descriptor is like the bytecode form but is slightly easier to work with.
```

```

* It does not include the trailing semicolon (for non array reference types).
* Some examples: Ljava/lang/String, I, [I
*/
protected volatile String exitTypeDescriptor;

public SpelNodeImpl(int pos, SpelNodeImpl... operands) {
    this.pos = pos;
    // pos combines start and end so can never be zero because tokens cannot be zero length
    Assert.isTrue(pos != 0, "Pos must not be 0");
    if (!ObjectUtils.isEmpty(operands)) {
        this.children = operands;
        for (SpelNodeImpl childNode : operands) {
            childNode.parent = this;
        }
    }
}

protected SpelNodeImpl getPreviousChild() {
    SpelNodeImpl result = null;
    if (this.parent != null) {
        for (SpelNodeImpl child : this.parent.children) {
            if (this == child) {
                break;
            }
            result = child;
        }
    }
    return result;
}

/**
 * @return true if the next child is one of the specified classes
 */
protected boolean nextChildIs(Class<?>... clazzes) {
    if (this.parent != null) {
        SpelNodeImpl[] peers = this.parent.children;
        for (int i = 0, max = peers.length; i < max; i++) {
            if (this == peers[i]) {
                if (i + 1 >= max) {
                    return false;
                }
                Class<?> clazz = peers[i + 1].getClass();
                for (Class<?> desiredClazz : clazzes) {
                    if (clazz.equals(desiredClazz)) {
                        return true;
                    }
                }
            }
        }
    }
}

```

```

    }
    return false;
    }
}
return false;
}

@Override
public final Object getValue(ExpressionState expressionState) throws EvaluationException {
    if (expressionState != null) {
        return getValueInternal(expressionState).getValue();
    }
    else {
        // configuration not set - does that matter?
        return getValue(new ExpressionState(new StandardEvaluationContext()));
    }
}

@Override
public final TypedValue getTypedValue(ExpressionState expressionState) throws EvaluationException {
    if (expressionState != null) {
        return getValueInternal(expressionState);
    }
    else {
        // configuration not set - does that matter?
        return getTypedValue(new ExpressionState(new StandardEvaluationContext()));
    }
}

// by default Ast nodes are not writable
@Override
public boolean isWritable(ExpressionState expressionState) throws EvaluationException {
    return false;
}

@Override
public void setValue(ExpressionState expressionState, Object newValue) throws EvaluationException {
    throw new SpelEvaluationException(getStartPosition(),
        SpelMessage.SETVALUE_NOT_SUPPORTED, getClass());
}

@Override
public SpelNode getChild(int index) {
    return this.children[index];
}

@Override

```

```

public int getChildCount() {
    return this.children.length;
}

@Override
public Class<?> getObjectClass(Object obj) {
    if (obj == null) {
        return null;
    }
    return (obj instanceof Class ? ((Class<?>) obj) : obj.getClass());
}

protected final <T> T getValue(ExpressionState state, Class<T> desiredReturnType) throws EvaluationException {
    return ExpressionUtils.convertTypedValue(state.getEvaluationContext(), getValueInternal(state),
desiredReturnType);
}

@Override
public int getStartPosition() {
    return (this.pos >> 16);
}

@Override
public int getEndPosition() {
    return (this.pos & 0xffff);
}

protected ValueRef getValueRef(ExpressionState state) throws EvaluationException {
    throw new SpelEvaluationException(this.pos, SpelMessage.NOT_ASSIGNABLE, toStringAST());
}

/**
 * Check whether a node can be compiled to bytecode. The reasoning in each node may
 * be different but will typically involve checking whether the exit type descriptor
 * of the node is known and any relevant child nodes are compilable.
 * @return {@code true} if this node can be compiled to bytecode
 */
public boolean isCompilable() {
    return false;
}

/**
 * Generate the bytecode for this node into the supplied visitor. Context info about
 * the current expression being compiled is available in the codeflow object. For
 * example it will include information about the type of the object currently
 * on the stack.
 * @param mv the ASM MethodVisitor into which code should be generated
 * @param cf a context object with info about what is on the stack

```

```

*/
public void generateCode(MethodVisitor mv, CodeFlow cf) {
    throw new IllegalStateException(getClass().getName() +" has no generateCode(..) method");
}

public String getExitDescriptor() {
    return this.exitTypeDescriptor;
}

public abstract TypedValue getValueInternal(ExpressionState expressionState) throws EvaluationException;

/**
 * Generate code that handles building the argument values for the specified method. This method will take account
 * of whether the invoked method is a varargs method and if it is then the argument values will be appropriately
 * packaged into an array.
 * @param mv the method visitor where code should be generated
 * @param cf the current codeflow
 * @param member the method or constructor for which arguments are being setup
 * @param arguments the expression nodes for the expression supplied argument values
 */
protected static void generateCodeForArguments(MethodVisitor mv, CodeFlow cf, Member member,
SpelNodeImpl[] arguments) {
    String[] paramDescriptors = null;
    boolean isVarargs = false;
    if (member instanceof Constructor) {
        Constructor<?> ctor = (Constructor<?>)member;
        paramDescriptors = CodeFlow.toDescriptors(ctor.getParameterTypes());
        isVarargs = ctor.isVarArgs();
    }
    else { // Method
        Method method = (Method)member;
        paramDescriptors = CodeFlow.toDescriptors(method.getParameterTypes());
        isVarargs = method.isVarArgs();
    }
    if (isVarargs) {
        // The final parameter may or may not need packaging into an array, or nothing may
        // have been passed to satisfy the varargs and so something needs to be built.
        int p = 0; // Current supplied argument being processed
        int childcount = arguments.length;

        // Fulfill all the parameter requirements except the last one
        for (p = 0; p < paramDescriptors.length-1;p++) {
            generateCodeForArgument(mv, cf, arguments[p], paramDescriptors[p]);
        }

        SpelNodeImpl lastchild = (childcount == 0 ? null : arguments[childcount-1]);
        String arraytype = paramDescriptors[paramDescriptors.length-1];

```

```

// Determine if the final passed argument is already suitably packaged in array
// form to be passed to the method
if (lastchild != null && lastchild.getExitDescriptor().equals(arraytype)) {
    generateCodeForArgument(mv, cf, lastchild, paramDescriptors[p]);
}
else {
    arraytype = arraytype.substring(1); // trim the leading '[', may leave other '['
    // build array big enough to hold remaining arguments
    CodeFlow.insertNewArrayCode(mv, childcount-p, arraytype);
    // Package up the remaining arguments into the array
    int arrayindex = 0;
    while (p < childcount) {
        SpelNodeImpl child = arguments[p];
        mv.visitInsn(DUP);
        CodeFlow.insertOptimalLoad(mv, arrayindex++);
        generateCodeForArgument(mv, cf, child, arraytype);
        CodeFlow.insertArrayStore(mv, arraytype);
        p++;
    }
}
else {
    for (int i = 0; i < paramDescriptors.length;i++) {
        generateCodeForArgument(mv, cf, arguments[i], paramDescriptors[i]);
    }
}

/**
 * Ask an argument to generate its bytecode and then follow it up
 * with any boxing/unboxing/checkcasting to ensure it matches the expected parameter descriptor.
 */
protected static void generateCodeForArgument(MethodVisitor mv, CodeFlow cf, SpelNodeImpl argument, String
paramDescriptor) {
    cf.enterCompilationScope();
    argument.generateCode(mv, cf);
    boolean primitiveOnStack = CodeFlow.isPrimitive(cf.lastDescriptor());
    // Check if need to box it for the method reference?
    if (primitiveOnStack && paramDescriptor.charAt(0) == 'L') {
        CodeFlow.insertBoxIfNecessary(mv, cf.lastDescriptor().charAt(0));
    }
    else if (paramDescriptor.length() == 1 && !primitiveOnStack) {
        CodeFlow.insertUnboxInsns(mv, paramDescriptor.charAt(0), cf.lastDescriptor());
    }
    else if (!cf.lastDescriptor().equals(paramDescriptor)) {
        // This would be unnecessary in the case of subtyping (e.g. method takes Number but Integer passed in)
        CodeFlow.insertCheckCast(mv, paramDescriptor);
    }
}

```



```

    cf.exitCompilationScope();
}
}
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 */

package org.springframework.expression.common;

import org.springframework.expression.ParserContext;

/**
 * Configurable {@link ParserContext} implementation for template parsing. Expects the
 * expression prefix and suffix as constructor arguments.
 *
 * @author Juergen Hoeller
 * @since 3.0
 */
public class TemplateParserContext implements ParserContext {

    private final String expressionPrefix;

    private final String expressionSuffix;

    /**
     * Create a new TemplateParserContext with the default "#{ " prefix and "}" suffix.
     */
    public TemplateParserContext() {
        this("#{ ", "}");
    }

    /**
     * Create a new TemplateParserContext for the given prefix and suffix.
     *
     * @param expressionPrefix the expression prefix to use
     * @param expressionSuffix the expression suffix to use

```

```

*/
public TemplateParserContext(String expressionPrefix, String expressionSuffix) {
    this.expressionPrefix = expressionPrefix;
    this.expressionSuffix = expressionSuffix;
}

@Override
public final boolean isTemplate() {
    return true;
}

@Override
public final String getExpressionPrefix() {
    return this.expressionPrefix;
}

@Override
public final String getExpressionSuffix() {
    return this.expressionSuffix;
}

}
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*/

package org.springframework.expression.common;

import java.util.LinkedList;
import java.util.List;
import java.util.Stack;

import org.springframework.expression.Expression;
import org.springframework.expression.ExpressionParser;
import org.springframework.expression.ParseException;

```

```

import org.springframework.expression.ParserContext;

/**
 * An expression parser that understands templates. It can be subclassed by expression
 * parsers that do not offer first class support for templating.
 *
 * @author Keith Donald
 * @author Juergen Hoeller
 * @author Andy Clement
 * @since 3.0
 */
public abstract class TemplateAwareExpressionParser implements ExpressionParser {

    /**
     * Default ParserContext instance for non-template expressions.
     */
    private static final ParserContext NON_TEMPLATE_PARSER_CONTEXT = new ParserContext() {

        @Override
        public String getExpressionPrefix() {
            return null;
        }

        @Override
        public String getExpressionSuffix() {
            return null;
        }

        @Override
        public boolean isTemplate() {
            return false;
        }
    };

    @Override
    public Expression parseExpression(String expressionString) throws ParseException {
        return parseExpression(expressionString, NON_TEMPLATE_PARSER_CONTEXT);
    }

    @Override
    public Expression parseExpression(String expressionString, ParserContext context)
        throws ParseException {
        if (context == null) {
            context = NON_TEMPLATE_PARSER_CONTEXT;
        }

        if (context.isTemplate()) {
            return parseTemplate(expressionString, context);
        }
    }
}

```

```

    }
    else {
        return doParseExpression(expressionString, context);
    }
}

private Expression parseTemplate(String expressionString, ParserContext context)
    throws ParseException {
    if (expressionString.length() == 0) {
        return new LiteralExpression("");
    }
    Expression[] expressions = parseExpressions(expressionString, context);
    if (expressions.length == 1) {
        return expressions[0];
    }
    else {
        return new CompositeStringExpression(expressionString, expressions);
    }
}

/**
 * Helper that parses given expression string using the configured parser. The
 * expression string can contain any number of expressions all contained in "$ {...}"
 * markers. For instance: "foo${expr0}bar${expr1}". The static pieces of text will
 * also be returned as Expressions that just return that static piece of text. As a
 * result, evaluating all returned expressions and concatenating the results produces
 * the complete evaluated string. Unwrapping is only done of the outermost delimiters
 * found, so the string 'hello ${foo${abc}}' would break into the pieces 'hello ' and
 * 'foo${abc}'. This means that expression languages that used ${..} as part of their
 * functionality are supported without any problem. The parsing is aware of the
 * structure of an embedded expression. It assumes that parentheses '(', square
 * brackets '[' and curly brackets '}' must be in pairs within the expression unless
 * they are within a string literal and a string literal starts and terminates with a
 * single quote '.
 * @param expressionString the expression string
 * @return the parsed expressions
 * @throws ParseException when the expressions cannot be parsed
 */
private Expression[] parseExpressions(String expressionString, ParserContext context)
    throws ParseException {
    List<Expression> expressions = new LinkedList<Expression>();
    String prefix = context.getExpressionPrefix();
    String suffix = context.getExpressionSuffix();
    int startIdx = 0;
    while (startIdx < expressionString.length()) {
        int prefixIndex = expressionString.indexOf(prefix, startIdx);
        if (prefixIndex >= startIdx) {
            // an inner expression was found - this is a composite

```

```

if (prefixIndex > startIdx) {
    expressions.add(createLiteralExpression(context,
        expressionString.substring(startIdx, prefixIndex)));
}
int afterPrefixIndex = prefixIndex + prefix.length();
int suffixIndex = skipToCorrectEndSuffix(prefix, suffix,
    expressionString, afterPrefixIndex);

if (suffixIndex == -1) {
    throw new ParseException(expressionString, prefixIndex,
        "No ending suffix " + suffix
        + " for expression starting at character "
        + prefixIndex + ": "
        + expressionString.substring(prefixIndex));
}

if (suffixIndex == afterPrefixIndex) {
    throw new ParseException(expressionString, prefixIndex,
        "No expression defined within delimiter " + prefix + suffix
        + " at character " + prefixIndex);
}

String expr = expressionString.substring(prefixIndex + prefix.length(),
    suffixIndex);
expr = expr.trim();

if (expr.length() == 0) {
    throw new ParseException(expressionString, prefixIndex,
        "No expression defined within delimiter " + prefix + suffix
        + " at character " + prefixIndex);
}

expressions.add(doParseExpression(expr, context));
startIdx = suffixIndex + suffix.length();
}
else {
    // no more ${expressions} found in string, add rest as static text
    expressions.add(createLiteralExpression(context,
        expressionString.substring(startIdx)));
    startIdx = expressionString.length();
}
}
return expressions.toArray(new Expression[expressions.size()]);
}

private Expression createLiteralExpression(ParserContext context, String text) {
    return new LiteralExpression(text);
}

```

```

/**
 * Return true if the specified suffix can be found at the supplied position in the
 * supplied expression string.
 * @param expressionString the expression string which may contain the suffix
 * @param pos the start position at which to check for the suffix
 * @param suffix the suffix string
 */
private boolean isSuffixHere(String expressionString, int pos, String suffix) {
    int suffixPosition = 0;
    for (int i = 0; i < suffix.length() && pos < expressionString.length(); i++) {
        if (expressionString.charAt(pos++) != suffix.charAt(suffixPosition++)) {
            return false;
        }
    }
    if (suffixPosition != suffix.length()) {
        // the expressionString ran out before the suffix could entirely be found
        return false;
    }
    return true;
}

/**
 * Copes with nesting, for example '${...$ {...}}' where the correct end for the first
 * ${ is the final }.
 * @param prefix the prefix
 * @param suffix the suffix
 * @param expressionString the expression string
 * @param afterPrefixIndex the most recently found prefix location for which the
 *     matching end suffix is being sought
 * @return the position of the correct matching nextSuffix or -1 if none can be found
 */
private int skipToCorrectEndSuffix(String prefix, String suffix,
    String expressionString, int afterPrefixIndex) throws ParseException {
    // Chew on the expression text - relying on the rules:
    // brackets must be in pairs: () [] {}
    // string literals are "\"" or "'" and these may contain unmatched brackets
    int pos = afterPrefixIndex;
    int maxlen = expressionString.length();
    int nextSuffix = expressionString.indexOf(suffix, afterPrefixIndex);
    if (nextSuffix == -1) {
        return -1; // the suffix is missing
    }
    Stack<Bracket> stack = new Stack<Bracket>();
    while (pos < maxlen) {
        if (isSuffixHere(expressionString, pos, suffix) && stack.isEmpty()) {
            break;
        }
    }
}

```

```

char ch = expressionString.charAt(pos);
switch (ch) {
case '{':
case '[':
case '(':
    stack.push(new Bracket(ch, pos));
    break;
case '}':
case ']':
case ')':
    if (stack.isEmpty()) {
        throw new ParseException(expressionString, pos, "Found closing "
            + ch + " at position " + pos + " without an opening "
            + Bracket.theOpenBracketFor(ch) + "");
    }
    Bracket p = stack.pop();
    if (!p.compatibleWithCloseBracket(ch)) {
        throw new ParseException(expressionString, pos, "Found closing "
            + ch + " at position " + pos
            + " but most recent opening is " + p.bracket
            + " at position " + p.pos);
    }
    break;
case "\"":
case "'":
    // jump to the end of the literal
    int endLiteral = expressionString.indexOf(ch, pos + 1);
    if (endLiteral == -1) {
        throw new ParseException(expressionString, pos,
            "Found non terminating string literal starting at position "
            + pos);
    }
    pos = endLiteral;
    break;
}
pos++;
}
if (!stack.isEmpty()) {
    Bracket p = stack.pop();
    throw new ParseException(expressionString, p.pos, "Missing closing "
        + Bracket.theCloseBracketFor(p.bracket) + " for " + p.bracket
        + " at position " + p.pos);
}
if (!isSuffixHere(expressionString, pos, suffix)) {
    return -1;
}
return pos;
}

```

```

/**
 * This captures a type of bracket and the position in which it occurs in the
 * expression. The positional information is used if an error has to be reported
 * because the related end bracket cannot be found. Bracket is used to describe:
 * square brackets [] round brackets () and curly brackets {}
 */
private static class Bracket {

    char bracket;

    int pos;

    Bracket(char bracket, int pos) {
        this.bracket = bracket;
        this.pos = pos;
    }

    boolean compatibleWithCloseBracket(char closeBracket) {
        if (this.bracket == '{') {
            return closeBracket == '}';
        }
        else if (this.bracket == '[') {
            return closeBracket == ']';
        }
        return closeBracket == ')';
    }

    static char theOpenBracketFor(char closeBracket) {
        if (closeBracket == '}') {
            return '{';
        }
        else if (closeBracket == ']') {
            return '[';
        }
        return '(';
    }

    static char theCloseBracketFor(char openBracket) {
        if (openBracket == '{') {
            return '}';
        }
        else if (openBracket == '[') {
            return ']';
        }
        return ')';
    }
}

```



```

}

/**
 * Actually parse the expression string and return an Expression object.
 * @param expressionString the raw expression string to parse
 * @param context a context for influencing this expression parsing routine (optional)
 * @return an evaluator for the parsed expression
 * @throws ParseException an exception occurred during parsing
 */
protected abstract Expression doParseExpression(String expressionString,
    ParserContext context) throws ParseException;
}

```

1.119 spring-expression-4.0.9.RELEASE

4.0.9.RELEASE

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 */

package org.springframework.web.util;

import java.io.Serializable;
import java.net.URI;
import java.util.Collections;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import org.springframework.util.Assert;

/**
 * Represents a URI template. A URI template is a URI-like String that contains variables enclosed
 * by braces ({@code {}}), which can be expanded to produce an actual URI.
 *
 * <p>See {@link #expand(Map)}, {@link #expand(Object[])}, and {@link #match(String)} for example usages.
 *
 * @author Arjen Poutsma
 * @author Juergen Hoeller
 * @since 3.0
 * @see <a href="http://bitworking.org/projects/URI-Templates/">URI Templates</a>
 */
@SuppressWarnings("serial")
public class UriTemplate implements Serializable {
```

```

/** Captures URI template variable names. */
private static final Pattern NAMES_PATTERN = Pattern.compile("\\{([^/]+?)\\}");

/** Replaces template variables in the URI template. */
private static final String DEFAULT_VARIABLE_PATTERN = "(.*)";

private final UriComponents uriComponents;

private final List<String> variableNames;

private final Pattern matchPattern;

private final String uriTemplate;

/**
 * Construct a new {@code UriTemplate} with the given URI String.
 * @param uriTemplate the URI template string
 */
public UriTemplate(String uriTemplate) {
    Parser parser = new Parser(uriTemplate);
    this.uriTemplate = uriTemplate;
    this.variableNames = parser.getVariableNames();
    this.matchPattern = parser.getMatchPattern();
    this.uriComponents = UriComponentsBuilder.fromUriString(uriTemplate).build();
}

/**
 * Return the names of the variables in the template, in order.
 * @return the template variable names
 */
public List<String> getVariableNames() {
    return this.variableNames;
}

/**
 * Given the Map of variables, expands this template into a URI. The Map keys represent variable names,
 * the Map values variable values. The order of variables is not significant.
 * <p>Example:
 * <pre class="code">
 * UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
 * Map<String, String> uriVariables = new HashMap<String, String>();
 * uriVariables.put("booking", "42");
 * uriVariables.put("hotel", "Rest & Relax");
 * System.out.println(template.expand(uriVariables));
 * </pre>
 * will print: <blockquote>{@code http://example.com/hotels/Rest%20%26%20Relax/bookings/42}</blockquote>

```

```

* @param uriVariables the map of URI variables
* @return the expanded URI
* @throws IllegalArgumentException if { @code uriVariables } is { @code null };
* or if it does not contain values for all the variable names
*/
public URI expand(Map<String, ?> uriVariables) {
    UriComponents expandedComponents = this.uriComponents.expand(uriVariables);
    UriComponents encodedComponents = expandedComponents.encode();
    return encodedComponents.toUri();
}

/**
 * Given an array of variables, expand this template into a full URI. The array represent variable values.
 * The order of variables is significant.
 * <p>Example:
 * <pre class="code">
 * UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
 * System.out.println(template.expand("Rest & Relax", "42"));
 * </pre>
 * will print: <blockquote>{ @code
http://example.com/hotels/Rest%20%26%20Relax/bookings/42}</blockquote>
 * @param uriVariableValues the array of URI variables
 * @return the expanded URI
 * @throws IllegalArgumentException if { @code uriVariables } is { @code null }
 * or if it does not contain sufficient variables
 */
public URI expand(Object... uriVariableValues) {
    UriComponents expandedComponents = this.uriComponents.expand(uriVariableValues);
    UriComponents encodedComponents = expandedComponents.encode();
    return encodedComponents.toUri();
}

/**
 * Indicate whether the given URI matches this template.
 * @param uri the URI to match to
 * @return { @code true } if it matches; { @code false } otherwise
 */
public boolean matches(String uri) {
    if (uri == null) {
        return false;
    }
    Matcher matcher = this.matchPattern.matcher(uri);
    return matcher.matches();
}

/**
 * Match the given URI to a map of variable values. Keys in the returned map are variable names,
 * values are variable values, as occurred in the given URI.

```

```

* <p>Example:
* <pre class="code">
* UriTemplate template = new UriTemplate("http://example.com/hotels/{hotel}/bookings/{booking}");
* System.out.println(template.match("http://example.com/hotels/1/bookings/42"));
* </pre>
* will print: <blockquote>{@code {hotel=1, booking=42}}</blockquote>
* @param uri the URI to match to
* @return a map of variable values
*/
public Map<String, String> match(String uri) {
    Assert.notNull(uri, "'uri' must not be null");
    Map<String, String> result = new LinkedHashMap<String, String>(this.variableNames.size());
    Matcher matcher = this.matchPattern.matcher(uri);
    if (matcher.find()) {
        for (int i = 1; i <= matcher.groupCount(); i++) {
            String name = this.variableNames.get(i - 1);
            String value = matcher.group(i);
            result.put(name, value);
        }
    }
    return result;
}

@Override
public String toString() {
    return this.uriTemplate;
}

/**
 * Static inner class to parse URI template strings into a matching regular expression.
 */
private static class Parser {

    private final List<String> variableNames = new LinkedList<String>();

    private final StringBuilder patternBuilder = new StringBuilder();

    private Parser(String uriTemplate) {
        Assert.hasText(uriTemplate, "'uriTemplate' must not be null");
        Matcher matcher = NAMES_PATTERN.matcher(uriTemplate);
        int end = 0;
        while (matcher.find()) {
            this.patternBuilder.append(quote(uriTemplate, end, matcher.start()));
            String match = matcher.group(1);
            int colonIdx = match.indexOf(':');
            if (colonIdx == -1) {
                this.patternBuilder.append(DEFAULT_VARIABLE_PATTERN);
            }
        }
    }
}

```

```

        this.variableNames.add(match);
    }
    else {
        if (colonIdx + 1 == match.length()) {
            throw new IllegalArgumentException(
                "No custom regular expression specified after ':' in \"" + match + "\"");
        }
        String variablePattern = match.substring(colonIdx + 1, match.length());
        this.patternBuilder.append('(');
        this.patternBuilder.append(variablePattern);
        this.patternBuilder.append(')');
        String variableName = match.substring(0, colonIdx);
        this.variableNames.add(variableName);
    }
    end = matcher.end();
}
this.patternBuilder.append(quote(uriTemplate, end, uriTemplate.length()));
int lastIdx = this.patternBuilder.length() - 1;
if (lastIdx >= 0 && this.patternBuilder.charAt(lastIdx) == '/') {
    this.patternBuilder.deleteCharAt(lastIdx);
}
}

private String quote(String fullPath, int start, int end) {
    if (start == end) {
        return "";
    }
    return Pattern.quote(fullPath.substring(start, end));
}

private List<String> getVariableNames() {
    return Collections.unmodifiableList(this.variableNames);
}

private Pattern getMatchPattern() {
    return Pattern.compile(this.patternBuilder.toString());
}
}

/*
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```

```
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*/
```

```
package org.springframework.web.client;
```

```
import java.io.IOException;
import java.lang.reflect.Type;
import java.net.URI;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import javax.xml.transform.Source;
```

```
import org.springframework.core.ParameterizedTypeReference;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpHeaders;
import org.springframework.http.HttpMethod;
import org.springframework.http.MediaType;
import org.springframework.http.RequestEntity;
import org.springframework.http.ResponseEntity;
import org.springframework.http.client.ClientHttpRequest;
import org.springframework.http.client.ClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.support.InterceptingHttpAccessor;
import org.springframework.http.converter.ByteArrayHttpMessageConverter;
import org.springframework.http.converter.GenericHttpMessageConverter;
import org.springframework.http.converter.HttpMessageConverter;
import org.springframework.http.converter.ResourceHttpMessageConverter;
import org.springframework.http.converter.StringHttpMessageConverter;
import org.springframework.http.converter.feed.AtomFeedHttpMessageConverter;
import org.springframework.http.converter.feed.RssChannelHttpMessageConverter;
import org.springframework.http.converter.json.GsonHttpMessageConverter;
import org.springframework.http.converter.json.MappingJackson2HttpMessageConverter;
import org.springframework.http.converter.support.AllEncompassingFormHttpMessageConverter;
import org.springframework.http.converter.xml.Jaxb2RootElementHttpMessageConverter;
import org.springframework.http.converter.xml.MappingJackson2XmlHttpMessageConverter;
import org.springframework.http.converter.xml.SourceHttpMessageConverter;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
import org.springframework.web.util.UriTemplate;
```

```
/**
```


- * **Spring's central class for synchronous client-side HTTP access.**
- * It simplifies communication with HTTP servers, and enforces RESTful principles.
- * It handles HTTP connections, leaving application code to provide URLs
- * (with possible template variables) and extract results.
- *
- *

The main entry points of this template are the methods named after the six main HTTP methods:
- *

HTTP method	RestTemplate methods
DELETE	{ @link #delete }
GET	{ @link #getForObject }
	{ @link #getForEntity }
HEAD	{ @link #headForHeaders }
OPTIONS	{ @link #optionsForAllow }
POST	{ @link #postForLocation }
	{ @link #postForObject }
PUT	{ @link #put }
any	{ @link #exchange }
	{ @link #execute }
- *
- *

In addition the { @code exchange } and { @code execute } methods are generalized versions of the above methods and can be used to support additional, less frequent combinations (e.g. HTTP PATCH, HTTP PUT with response body, etc.). Note however that the underlying HTTP library used must also support the desired combination.
- *
- *

For each HTTP method there are 3 variants -- two accept a URI template string and URI variables (array or map) while a third accepts a { @link URI }.
- * Note that for URI templates it is assumed encoding is necessary, e.g.
- * { @code restTemplate.getForObject("http://example.com/hotel list")} becomes
- * { @code "http://example.com/hotel%20list" }. This also means if the URI template
- * or URI variables are already encoded, double encoding will occur, e.g.
- * { @code http://example.com/hotel%20list } becomes
- * { @code http://example.com/hotel%2520list }). To avoid that use a { @code URI } method
- * variant to provide (or re-use) a previously encoded URI. To prepare such an URI
- * with full control over encoding, consider using
- * { @link org.springframework.web.util.UriComponentsBuilder }.
- *
- *

Internally the template uses { @link HttpMessageConverter } instances to
- * convert HTTP messages to and from POJOs. Converters for the main mime types
- * are registered by default but you can also register additional converters
- * via { @link #setMessageConverters }.
- *
- *

This template uses a
- * { @link org.springframework.http.client.SimpleClientHttpRequestFactory } and a
- * { @link DefaultResponseErrorHandler } as default strategies for creating HTTP
- * connections or handling HTTP errors, respectively. These defaults can be overridden
- * through { @link #setRequestFactory } and { @link #setErrorHandler } respectively.
- *
- * @author Arjen Poutsma

```

* @author Brian Clozel
* @author Roy Clarkson
* @since 3.0
* @see HttpMessageConverter
* @see RequestCallback
* @see ResponseExtractor
* @see ResponseErrorHandler
* @see AsyncRestTemplate
*/
public class RestTemplate extends InterceptingHttpAccessor implements RestOperations {

    private static boolean romePresent =
        ClassUtils.isPresent("com.rometools.rome.feed.WireFeed", RestTemplate.class.getClassLoader());

    private static final boolean jaxb2Present =
        ClassUtils.isPresent("javax.xml.bind.Binder", RestTemplate.class.getClassLoader());

    private static final boolean jackson2Present =
        ClassUtils.isPresent("com.fasterxml.jackson.databind.ObjectMapper", RestTemplate.class.getClassLoader()) &&
        ClassUtils.isPresent("com.fasterxml.jackson.core.JsonGenerator", RestTemplate.class.getClassLoader());

    private static final boolean jackson2XmlPresent =
        ClassUtils.isPresent("com.fasterxml.jackson.dataformat.xml.XmlMapper", RestTemplate.class.getClassLoader());

    private static final boolean gsonPresent =
        ClassUtils.isPresent("com.google.gson.Gson", RestTemplate.class.getClassLoader());

    private final List<HttpMessageConverter<?>> messageConverters = new ArrayList<HttpMessageConverter<?>>();

    private ResponseErrorHandler errorHandler = new DefaultResponseErrorHandler();

    private final ResponseExtractor<HttpHeaders> headersExtractor = new HeadersExtractor();

    /**
     * Create a new instance of the {@link RestTemplate} using default settings.
     * Default {@link HttpMessageConverter}s are initialized.
     */
    public RestTemplate() {
        this.messageConverters.add(new ByteArrayHttpMessageConverter());
        this.messageConverters.add(new StringHttpMessageConverter());
        this.messageConverters.add(new ResourceHttpMessageConverter());
        this.messageConverters.add(new SourceHttpMessageConverter<Source>());
        this.messageConverters.add(new AllEncompassingFormHttpMessageConverter());

        if (romePresent) {
            this.messageConverters.add(new AtomFeedHttpMessageConverter());
        }
    }

```

```

    this.messageConverters.add(new RssChannelHttpMessageConverter());
}
if (jackson2XmlPresent) {
    messageConverters.add(new MappingJackson2XmlHttpMessageConverter());
}
else if (jaxb2Present) {
    this.messageConverters.add(new Jaxb2RootElementHttpMessageConverter());
}
if (jackson2Present) {
    this.messageConverters.add(new MappingJackson2HttpMessageConverter());
}
else if (gsonPresent) {
    this.messageConverters.add(new GsonHttpMessageConverter());
}
}

/**
 * Create a new instance of the {@link RestTemplate} based on the given {@link ClientHttpRequestFactory}.
 * @param requestFactory HTTP request factory to use
 * @see org.springframework.http.client.SimpleClientHttpRequestFactory
 * @see org.springframework.http.client.HttpComponentsClientHttpRequestFactory
 */
public RestTemplate(ClientHttpRequestFactory requestFactory) {
    this();
    setRequestFactory(requestFactory);
}

/**
 * Create a new instance of the {@link RestTemplate} using the given list of
 * {@link HttpMessageConverter} to use
 * @param messageConverters the list of {@link HttpMessageConverter} to use
 * @since 3.2.7
 */
public RestTemplate(List<HttpMessageConverter<?>> messageConverters) {
    Assert.notEmpty(messageConverters, "messageConverters' must not be empty");
    this.messageConverters.addAll(messageConverters);
}

/**
 * Set the message body converters to use.
 * <p>These converters are used to convert from and to HTTP requests and responses.
 */
public void setMessageConverters(List<HttpMessageConverter<?>> messageConverters) {
    Assert.notEmpty(messageConverters, "messageConverters' must not be empty");
    // Take getMessageConverters() List as-is when passed in here
    if (this.messageConverters != messageConverters) {
        this.messageConverters.clear();
    }
}

```

```

    this.messageConverters.addAll(messageConverters);
}
}

/**
 * Return the message body converters.
 */
public List<HttpMessageConverter<?>> getMessageConverters() {
    return this.messageConverters;
}

/**
 * Set the error handler.
 * <p>By default, RestTemplate uses a {@link DefaultResponseErrorHandler}.
 */
public void setErrorHandler(ResponseErrorHandler errorHandler) {
    Assert.notNull(errorHandler, "'errorHandler' must not be null");
    this.errorHandler = errorHandler;
}

/**
 * Return the error handler.
 */
public ResponseErrorHandler getErrorHandler() {
    return this.errorHandler;
}

// GET

@Override
public <T> T getForObject(String url, Class<T> responseType, Object... urlVariables) throws RestClientException
{
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

@Override
public <T> T getForObject(String url, Class<T> responseType, Map<String, ?> urlVariables) throws
RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

```

```

@Override
public <T> T getForObject(URI url, Class<T> responseType) throws RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    HttpResponseMessageConverterExtractor<T> responseExtractor =
        new HttpResponseMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> getForEntity(String url, Class<T> responseType, Object... urlVariables)
    throws RestClientException {

    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

@Override
public <T> ResponseEntity<T> getForEntity(String url, Class<T> responseType, Map<String, ?> urlVariables)
    throws RestClientException {

    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, urlVariables);
}

@Override
public <T> ResponseEntity<T> getForEntity(URI url, Class<T> responseType) throws RestClientException {
    RequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}

// HEAD

@Override
public HttpHeaders headForHeaders(String url, Object... urlVariables) throws RestClientException {
    return execute(url, HttpMethod.HEAD, null, headersExtractor(), urlVariables);
}

@Override
public HttpHeaders headForHeaders(String url, Map<String, ?> urlVariables) throws RestClientException {
    return execute(url, HttpMethod.HEAD, null, headersExtractor(), urlVariables);
}

@Override
public HttpHeaders headForHeaders(URI url) throws RestClientException {

```

```

return execute(url, HttpMethod.HEAD, null, headersExtractor());
}

// POST

@Override
public URI postForLocation(String url, Object request, Object... urlVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, headersExtractor(), urlVariables);
    return headers.getLocation();
}

@Override
public URI postForLocation(String url, Object request, Map<String, ?> urlVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, headersExtractor(), urlVariables);
    return headers.getLocation();
}

@Override
public URI postForLocation(URI url, Object request) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    HttpHeaders headers = execute(url, HttpMethod.POST, requestCallback, headersExtractor());
    return headers.getLocation();
}

@Override
public <T> T postForObject(String url, Object request, Class<T> responseType, Object... uriVariables)
    throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> T postForObject(String url, Object request, Class<T> responseType, Map<String, ?> uriVariables)
    throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    HttpMessageConverterExtractor<T> responseExtractor =
        new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

@Override

```

```

public <T> T postForObject(URI url, Object request, Class<T> responseType) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    HttpResponseMessageConverterExtractor<T> responseExtractor =
        new HttpResponseMessageConverterExtractor<T>(responseType, getMessageConverters());
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> postForEntity(String url, Object request, Class<T> responseType, Object...
uriVariables)
    throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> postForEntity(String url, Object request, Class<T> responseType, Map<String, ?>
uriVariables)
    throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> postForEntity(URI url, Object request, Class<T> responseType) throws
RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}

// PUT

@Override
public void put(String url, Object request, Object... uriVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public void put(String url, Object request, Map<String, ?> uriVariables) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

```

```

}

@Override
public void put(Uri url, Object request) throws RestClientException {
    RequestCallback requestCallback = httpEntityCallback(request);
    execute(url, HttpMethod.PUT, requestCallback, null);
}

// DELETE

@Override
public void delete(String url, Object... urlVariables) throws RestClientException {
    execute(url, HttpMethod.DELETE, null, null, urlVariables);
}

@Override
public void delete(String url, Map<String, ?> urlVariables) throws RestClientException {
    execute(url, HttpMethod.DELETE, null, null, urlVariables);
}

@Override
public void delete(Uri url) throws RestClientException {
    execute(url, HttpMethod.DELETE, null, null);
}

// OPTIONS

@Override
public Set<HttpMethod> optionsForAllow(String url, Object... urlVariables) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor, urlVariables);
    return headers.getAllow();
}

@Override
public Set<HttpMethod> optionsForAllow(String url, Map<String, ?> urlVariables) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor, urlVariables);
    return headers.getAllow();
}

@Override
public Set<HttpMethod> optionsForAllow(Uri url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    HttpHeaders headers = execute(url, HttpMethod.OPTIONS, null, headersExtractor);
    return headers.getAllow();
}

```



```

}

// exchange

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType, Object... uriVariables) throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method,
    HttpEntity<?> requestEntity, Class<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(URI url, HttpMethod method, HttpEntity<?> requestEntity,
    Class<T> responseType) throws RestClientException {

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method, HttpEntity<?> requestEntity,
    ParameterizedTypeReference<T> responseType, Object... uriVariables) throws RestClientException {

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(String url, HttpMethod method, HttpEntity<?> requestEntity,
    ParameterizedTypeReference<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);

```

```

ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ResponseEntity<T> exchange(URI url, HttpMethod method, HttpEntity<?> requestEntity,
    ParameterizedTypeReference<T> responseType) throws RestClientException {

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> exchange(RequestEntity<?> requestEntity, Class<T> responseType)
    throws RestClientException {

    Assert.notNull(requestEntity, "'requestEntity' must not be null");

    RequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(requestEntity.getUrl(), requestEntity.getMethod(), requestCallback, responseExtractor);
}

@Override
public <T> ResponseEntity<T> exchange(RequestEntity<?> requestEntity, ParameterizedTypeReference<T>
    responseType)
    throws RestClientException {

    Assert.notNull(requestEntity, "'requestEntity' must not be null");

    Type type = responseType.getType();
    RequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(requestEntity.getUrl(), requestEntity.getMethod(), requestCallback, responseExtractor);
}

// general execution

@Override
public <T> T execute(String url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor, Object... uriVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(uriVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

```

```

@Override
public <T> T execute(String url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor, Map<String, ?> urlVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(urlVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> T execute(URI url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

    return doExecute(url, method, requestCallback, responseExtractor);
}

/**
 * Execute the given method on the provided URI.
 * <p>The { @link ClientHttpRequest } is processed using the { @link RequestCallback };
 * the response with the { @link ResponseExtractor }.
 * @param url the fully-expanded URL to connect to
 * @param method the HTTP method to execute (GET, POST, etc.)
 * @param requestCallback object that prepares the request (can be { @code null })
 * @param responseExtractor object that extracts the return value from the response (can be { @code null })
 * @return an arbitrary object, as returned by the { @link ResponseExtractor }
 */
protected <T> T doExecute(URI url, HttpMethod method, RequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

    Assert.notNull(url, "'url' must not be null");
    Assert.notNull(method, "'method' must not be null");
    ClientHttpResponse response = null;
    try {
        ClientHttpRequest request = createRequest(url, method);
        if (requestCallback != null) {
            requestCallback.doWithRequest(request);
        }
        response = request.execute();
        if (!getErrorHandler().hasError(response)) {
            logResponseStatus(method, url, response);
        }
        else {
            handleResponseError(method, url, response);
        }
        if (responseExtractor != null) {
            return responseExtractor.extractData(response);
        }
        else {

```

```

        return null;
    }
}
catch (IOException ex) {
    throw new ResourceAccessException("I/O error on " + method.name() +
        " request for \"" + url + "\":" + ex.getMessage(), ex);
}
finally {
    if (response != null) {
        response.close();
    }
}
}

private void logResponseStatus(HttpMethod method, URI url, ClientHttpResponse response) {
    if (logger.isDebugEnabled()) {
        try {
            logger.debug(method.name() + " request for \"" + url + "\" resulted in " +
                response.getRawStatusCode() + " (" + response.getStatusText() + ")");
        }
        catch (IOException ex) {
            // ignore
        }
    }
}

private void handleResponseError(HttpMethod method, URI url, ClientHttpResponse response) throws IOException
{
    if (logger.isWarnEnabled()) {
        try {
            logger.warn(method.name() + " request for \"" + url + "\" resulted in " +
                response.getRawStatusCode() + " (" + response.getStatusText() + "); invoking error handler");
        }
        catch (IOException ex) {
            // ignore
        }
    }
    getErrorHandler().handleError(response);
}

/**
 * Returns a request callback implementation that prepares the request {@code Accept}
 * headers based on the given response type and configured
 * {@code @linkplain #getMessageConverters()} message converters}.
 */
protected <T> RequestCallback acceptHeaderRequestCallback(Class<T> responseType) {
    return new AcceptHeaderRequestCallback(responseType);
}

```

```

/**
 * Returns a request callback implementation that writes the given object to the
 * request stream.
 */
protected <T> RequestCallback httpEntityCallback(Object requestBody) {
    return new HttpEntityRequestCallback(requestBody);
}

/**
 * Returns a request callback implementation that writes the given object to the
 * request stream.
 */
protected <T> RequestCallback httpEntityCallback(Object requestBody, Type responseType) {
    return new HttpEntityRequestCallback(requestBody, responseType);
}

/**
 * Returns a response extractor for { @link ResponseEntity }.
 */
protected <T> ResponseExtractor<ResponseEntity<T>> responseEntityExtractor(Type responseType) {
    return new ResponseEntityResponseExtractor<T>(responseType);
}

/**
 * Returns a response extractor for { @link HttpHeaders }.
 */
protected ResponseExtractor<HttpHeaders> headersExtractor() {
    return this.headersExtractor;
}

/**
 * Request callback implementation that prepares the request's accept headers.
 */
private class AcceptHeaderRequestCallback implements RequestCallback {

    private final Type responseType;

    private AcceptHeaderRequestCallback(Type responseType) {
        this.responseType = responseType;
    }

    @Override
    public void doWithRequest(ClientHttpRequest request) throws IOException {
        if (this.responseType != null) {
            Class<?> responseClass = null;
            if (this.responseType instanceof Class) {

```

```

responseClass = (Class<?>) this.responseType;
}
List<MediaType> allSupportedMediaTypes = new ArrayList<MediaType>();
for (HttpMessageConverter<?> converter : getMessageConverters()) {
    if (responseClass != null) {
        if (converter.canRead(responseClass, null)) {
            allSupportedMediaTypes.addAll(getSupportedMediaTypes(converter));
        }
    }
    else if (converter instanceof GenericHttpMessageConverter) {
        GenericHttpMessageConverter<?> genericConverter = (GenericHttpMessageConverter<?>) converter;
        if (genericConverter.canRead(this.responseType, null, null)) {
            allSupportedMediaTypes.addAll(getSupportedMediaTypes(converter));
        }
    }
}
if (!allSupportedMediaTypes.isEmpty()) {
    MediaType.sortBySpecificity(allSupportedMediaTypes);
    if (logger.isDebugEnabled()) {
        logger.debug("Setting request Accept header to " +
            allSupportedMediaTypes);
    }
    request.getHeaders().setAccept(allSupportedMediaTypes);
}
}
}
}
}

```

```

private List<MediaType> getSupportedMediaTypes(HttpMessageConverter<?> messageConverter) {
    List<MediaType> supportedMediaTypes = messageConverter.getSupportedMediaTypes();
    List<MediaType> result = new ArrayList<MediaType>(supportedMediaTypes.size());
    for (MediaType supportedMediaType : supportedMediaTypes) {
        if (supportedMediaType.getCharSet() != null) {
            supportedMediaType =
                new MediaType(supportedMediaType.getType(), supportedMediaType.getSubtype());
        }
        result.add(supportedMediaType);
    }
    return result;
}
}
}

```

```
/**
```

```
* Request callback implementation that writes the given object to the request stream.
*/
```

```
private class HttpEntityRequestCallback extends AcceptHeaderRequestCallback {
```

```
    private final HttpEntity<?> requestEntity;
```

```

private HttpEntityRequestCallback(Object requestBody) {
    this(requestBody, null);
}

private HttpEntityRequestCallback(Object requestBody, Type responseType) {
    super(responseType);
    if (requestBody instanceof HttpEntity) {
        this.requestEntity = (HttpEntity<?>) requestBody;
    }
    else if (requestBody != null) {
        this.requestEntity = new HttpEntity<Object>(requestBody);
    }
    else {
        this.requestEntity = HttpEntity.EMPTY;
    }
}

@Override
@SuppressWarnings("unchecked")
public void doWithRequest(ClientHttpRequest httpRequest) throws IOException {
    super.doWithRequest(httpRequest);
    if (!this.requestEntity.hasBody()) {
        HttpHeaders httpHeaders = httpRequest.getHeaders();
        HttpHeaders requestHeaders = this.requestEntity.getHeaders();
        if (!requestHeaders.isEmpty()) {
            httpHeaders.putAll(requestHeaders);
        }
        if (httpHeaders.getContentLength() == -1) {
            httpHeaders.setContentLength(0L);
        }
    }
    else {
        Object requestBody = this.requestEntity.getBody();
        Class<?> requestType = requestBody.getClass();
        HttpHeaders requestHeaders = this.requestEntity.getHeaders();
        MediaType requestContentType = requestHeaders.getContentType();
        for (HttpMessageConverter<?> messageConverter : getMessageConverters()) {
            if (messageConverter.canWrite(requestType, requestContentType)) {
                if (!requestHeaders.isEmpty()) {
                    httpRequest.getHeaders().putAll(requestHeaders);
                }
                if (logger.isDebugEnabled()) {
                    if (requestContentType != null) {
                        logger.debug("Writing [" + requestBody + "] as \"" + requestContentType +
                            "\" using [" + messageConverter + "]");
                    }
                }
                else {

```

```

        logger.debug("Writing [" + requestBody + "] using [" + messageConverter + "]");
    }

}

((HttpMessageConverter<Object>) messageConverter).write(
    requestBody, requestContentType, httpRequest);
return;
}
}

String message = "Could not write request: no suitable HttpMessageConverter found for request type [" +
    requestType.getName() + "]";
if (requestContentType != null) {
    message += " and content type [" + requestContentType + "]";
}
throw new RestClientException(message);
}
}
}

/**
 * Response extractor for {@link HttpEntity}.
 */
private class ResponseEntityResponseExtractor<T> implements ResponseExtractor<ResponseEntity<T>> {

    private final HttpMessageConverterExtractor<T> delegate;

    public ResponseEntityResponseExtractor(Type responseType) {
        if (responseType != null && !Void.class.equals(responseType)) {
            this.delegate = new HttpMessageConverterExtractor<T>(responseType, getMessageConverters(), logger);
        }
        else {
            this.delegate = null;
        }
    }

    @Override
    public ResponseEntity<T> extractData(ClientHttpResponse response) throws IOException {
        if (this.delegate != null) {
            T body = this.delegate.extractData(response);
            return new ResponseEntity<T>(body, response.getHeaders(), response.getStatusCode());
        }
        else {
            return new ResponseEntity<T>(response.getHeaders(), response.getStatusCode());
        }
    }
}

```



```

/**
 * Response extractor that extracts the response { @link HttpHeaders}.
 */
private static class HeadersExtractor implements ResponseExtractor<HttpHeaders> {

    @Override
    public HttpHeaders extractData(ClientHttpResponse response) throws IOException {
        return response.getHeaders();
    }
}

}

/*
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 * limitations under the License.
 */

package org.springframework.web.client;

import java.io.IOException;
import java.io.OutputStream;
import java.lang.reflect.Type;
import java.net.URI;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;

import org.springframework.core.ParameterizedTypeReference;
import org.springframework.core.task.AsyncListenableTaskExecutor;
import org.springframework.core.task.AsyncTaskExecutor;
import org.springframework.core.task.SimpleAsyncTaskExecutor;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpHeaders;

```

```

import org.springframework.http.HttpMethod;
import org.springframework.http.ResponseEntity;
import org.springframework.http.client.AsyncClientHttpRequest;
import org.springframework.http.client.AsyncClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpRequest;
import org.springframework.http.client.ClientHttpRequestFactory;
import org.springframework.http.client.ClientHttpResponse;
import org.springframework.http.client.SimpleClientHttpRequestFactory;
import org.springframework.http.client.support.AsyncHttpAccessor;
import org.springframework.http.converter.HttpMessageConverter;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.FailureCallback;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.ListenableFutureAdapter;
import org.springframework.util.concurrent.ListenableFutureCallback;
import org.springframework.util.concurrent.SuccessCallback;
import org.springframework.web.util.UriTemplate;

/**
 * <strong>Spring's central class for asynchronous client-side HTTP access.</strong>
 * Exposes similar methods as { @link RestTemplate }, but returns { @link ListenableFuture }
 * wrappers as opposed to concrete results.
 *
 * <p>The { @code AsyncRestTemplate } exposes a synchronous { @link RestTemplate } via the
 * { @link #getRestOperations() } method, and it shares its
 * { @linkplain #setErrorHandler(ResponseErrorHandler) error handler } and
 * { @linkplain #setMessageConverters(List) message converters } with this
 * { @code RestTemplate }.
 *
 * <p>For more information, please refer to the { @link RestTemplate } API documentation.
 *
 * @author Arjen Poutsma
 * @since 4.0
 * @see RestTemplate
 */
public class AsyncRestTemplate extends AsyncHttpAccessor implements AsyncRestOperations {

    private final RestTemplate syncTemplate;

    /**
     * Create a new instance of the { @code AsyncRestTemplate } using default settings.
     * <p>This constructor uses a { @link SimpleClientHttpRequestFactory } in combination
     * with a { @link SimpleAsyncTaskExecutor } for asynchronous execution.
     */
    public AsyncRestTemplate() {
        this(new SimpleAsyncTaskExecutor());
    }

```

```

/**
 * Create a new instance of the {@code AsyncRestTemplate} using the given
 * {@link AsyncTaskExecutor}.
 * <p>This constructor uses a {@link SimpleClientHttpRequestFactory} in combination
 * with the given {@code AsyncTaskExecutor} for asynchronous execution.
 */
public AsyncRestTemplate(AsyncListenableTaskExecutor taskExecutor) {
    Assert.notNull(taskExecutor, "AsyncTaskExecutor must not be null");
    SimpleClientHttpRequestFactory requestFactory = new SimpleClientHttpRequestFactory();
    requestFactory.setTaskExecutor(taskExecutor);
    this.syncTemplate = new RestTemplate(requestFactory);
    setAsyncRequestFactory(requestFactory);
}

/**
 * Create a new instance of the {@code AsyncRestTemplate} using the given
 * {@link AsyncClientHttpRequestFactory}.
 * <p>This constructor will cast the given asynchronous
 * {@code AsyncClientHttpRequestFactory} to a {@link ClientHttpRequestFactory}. Since
 * all implementations of {@code ClientHttpRequestFactory} provided in Spring also
 * implement {@code AsyncClientHttpRequestFactory}, this should not result in a
 * {@code ClassCastException}.
 */
public AsyncRestTemplate(AsyncClientHttpRequestFactory asyncRequestFactory) {
    this(asyncRequestFactory, (ClientHttpRequestFactory) asyncRequestFactory);
}

/**
 * Creates a new instance of the {@code AsyncRestTemplate} using the given
 * asynchronous and synchronous request factories.
 * @param asyncRequestFactory the asynchronous request factory
 * @param syncRequestFactory the synchronous request factory
 */
public AsyncRestTemplate(AsyncClientHttpRequestFactory asyncRequestFactory, ClientHttpRequestFactory
syncRequestFactory) {
    this(asyncRequestFactory, new RestTemplate(syncRequestFactory));
}

/**
 * Create a new instance of the {@code AsyncRestTemplate} using the given
 * {@link AsyncClientHttpRequestFactory} and synchronous {@link RestTemplate}.
 * @param requestFactory the asynchronous request factory to use
 * @param restTemplate the synchronous template to use
 */
public AsyncRestTemplate(AsyncClientHttpRequestFactory requestFactory, RestTemplate restTemplate) {
    Assert.notNull(restTemplate, "'restTemplate' must not be null");
    this.syncTemplate = restTemplate;
}

```

```

setAsyncRequestFactory(requestFactory);
}

/**
 * Set the error handler.
 * <p>By default, AsyncRestTemplate uses a
 * { @link org.springframework.web.client.DefaultResponseErrorHandler}.
 */
public void setErrorHandler(ResponseErrorHandler errorHandler) {
    this.syncTemplate.setErrorHandler(errorHandler);
}

/** Return the error handler. */
public ResponseErrorHandler getErrorHandler() {
    return this.syncTemplate.getErrorHandler();
}

@Override
public RestOperations getRestOperations() {
    return this.syncTemplate;
}

/**
 * Set the message body converters to use.
 * <p>These converters are used to convert from and to HTTP requests and responses.
 */
public void setMessageConverters(List<HttpMessageConverter<?>> messageConverters) {
    this.syncTemplate.setMessageConverters(messageConverters);
}

/**
 * Return the message body converters.
 */
public List<HttpMessageConverter<?>> getMessageConverters() {
    return syncTemplate.getMessageConverters();
}

// GET

@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(String url, Class<T> responseType, Object...
uriVariables)
    throws RestClientException {
    AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);

```

```

return execute(url, HttpMethod.GET, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(String url, Class<T> responseType,
    Map<String, ?> uriVariables) throws RestClientException {

    AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> getForEntity(URI url, Class<T> responseType) throws
    RestClientException {
    AsyncRequestCallback requestCallback = acceptHeaderRequestCallback(responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.GET, requestCallback, responseExtractor);
}

// HEAD

@Override
public ListenableFuture<HttpHeaders> headForHeaders(String url, Object... uriVariables) throws
    RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor, uriVariables);
}

@Override
public ListenableFuture<HttpHeaders> headForHeaders(String url, Map<String, ?> uriVariables) throws
    RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor, uriVariables);
}

@Override
public ListenableFuture<HttpHeaders> headForHeaders(URI url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    return execute(url, HttpMethod.HEAD, null, headersExtractor);
}

// POST

@Override
public ListenableFuture<URI> postForLocation(String url, HttpEntity<?> request, Object... uriVariables)
    throws RestClientException {

```

```

AsyncRequestCallback requestCallback = httpEntityCallback(request);
ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
ListenableFuture<HttpHeaders> headersFuture =
    execute(url, HttpMethod.POST, requestCallback, headersExtractor, uriVariables);
return extractLocationHeader(headersFuture);
}

@Override
public ListenableFuture<URI> postForLocation(String url, HttpEntity<?> request, Map<String, ?> uriVariables)
    throws RestClientException {

    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture =
        execute(url, HttpMethod.POST, requestCallback, headersExtractor, uriVariables);
    return extractLocationHeader(headersFuture);
}

@Override
public ListenableFuture<URI> postForLocation(URI url, HttpEntity<?> request) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture =
        execute(url, HttpMethod.POST, requestCallback, headersExtractor);
    return extractLocationHeader(headersFuture);
}

private static ListenableFuture<URI> extractLocationHeader(final ListenableFuture<HttpHeaders> headersFuture) {
    return new ListenableFuture<URI>() {
        @Override
        public void addCallback(final ListenableFutureCallback<? super URI> callback) {
            addCallback(callback, callback);
        }
        @Override
        public void addCallback(final SuccessCallback<? super URI> successCallback, final FailureCallback
failureCallback) {
            headersFuture.addCallback(new ListenableFutureCallback<HttpHeaders>() {
                @Override
                public void onSuccess(HttpHeaders result) {
                    successCallback.onSuccess(result.getLocation());
                }
                @Override
                public void onFailure(Throwable ex) {
                    failureCallback.onFailure(ex);
                }
            });
        }
    };
}

```

```

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return headersFuture.cancel(mayInterruptIfRunning);
}
@Override
public boolean isCancelled() {
    return headersFuture.isCancelled();
}
@Override
public boolean isDone() {
    return headersFuture.isDone();
}
@Override
public URI get() throws InterruptedException, ExecutionException {
    HttpHeaders headers = headersFuture.get();
    return headers.getLocation();
}
@Override
public URI get(long timeout, TimeUnit unit) throws InterruptedException, ExecutionException, TimeoutException
{
    HttpHeaders headers = headersFuture.get(timeout, unit);
    return headers.getLocation();
}
};
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(String url, HttpEntity<?> request,
    Class<T> responseType, Object... uriVariables) throws RestClientException {

    AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(String url, HttpEntity<?> request,
    Class<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, HttpMethod.POST, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> postForEntity(URI url, HttpEntity<?> request, Class<T>
responseType)
    throws RestClientException {

```

```

AsyncRequestCallback requestCallback = httpEntityCallback(request, responseType);
ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
return execute(url, HttpMethod.POST, requestCallback, responseExtractor);
}

// PUT

@Override
public ListenableFuture<?> put(String url, HttpEntity<?> request, Object... uriVariables) throws
RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    return execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public ListenableFuture<?> put(String url, HttpEntity<?> request, Map<String, ?> uriVariables) throws
RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    return execute(url, HttpMethod.PUT, requestCallback, null, uriVariables);
}

@Override
public ListenableFuture<?> put(URI url, HttpEntity<?> request) throws RestClientException {
    AsyncRequestCallback requestCallback = httpEntityCallback(request);
    return execute(url, HttpMethod.PUT, requestCallback, null);
}

// DELETE

@Override
public ListenableFuture<?> delete(String url, Object... uriVariables) throws RestClientException {
    return execute(url, HttpMethod.DELETE, null, null, uriVariables);
}

@Override
public ListenableFuture<?> delete(String url, Map<String, ?> uriVariables) throws RestClientException {
    return execute(url, HttpMethod.DELETE, null, null, uriVariables);
}

@Override
public ListenableFuture<?> delete(URI url) throws RestClientException {
    return execute(url, HttpMethod.DELETE, null, null);
}

```



```
// OPTIONS
```

```
@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(String url, Object... uriVariables) throws
RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor,
uriVariables);
    return extractAllowHeader(headersFuture);
}

@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(String url, Map<String, ?> uriVariables) throws
RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor,
uriVariables);
    return extractAllowHeader(headersFuture);
}

@Override
public ListenableFuture<Set<HttpMethod>> optionsForAllow(URI url) throws RestClientException {
    ResponseExtractor<HttpHeaders> headersExtractor = headersExtractor();
    ListenableFuture<HttpHeaders> headersFuture = execute(url, HttpMethod.OPTIONS, null, headersExtractor);
    return extractAllowHeader(headersFuture);
}

private static ListenableFuture<Set<HttpMethod>> extractAllowHeader(final ListenableFuture<HttpHeaders>
headersFuture) {
    return new ListenableFuture<Set<HttpMethod>>() {
        @Override
        public void addCallback(final ListenableFutureCallback<? super Set<HttpMethod>> callback) {
            addCallback(callback, callback);
        }
        @Override
        public void addCallback(final SuccessCallback<? super Set<HttpMethod>> successCallback, final FailureCallback
failureCallback) {
            headersFuture.addCallback(new ListenableFutureCallback<HttpHeaders>() {
                @Override
                public void onSuccess(HttpHeaders result) {
                    successCallback.onSuccess(result.getAllow());
                }
                @Override
                public void onFailure(Throwable ex) {
                    failureCallback.onFailure(ex);
                }
            });
        }
    };
}
```

```

@Override
public boolean cancel(boolean mayInterruptIfRunning) {
    return headersFuture.cancel(mayInterruptIfRunning);
}
@Override
public boolean isCancelled() {
    return headersFuture.isCancelled();
}
@Override
public boolean isDone() {
    return headersFuture.isDone();
}
@Override
public Set<HttpMethod> get() throws InterruptedException, ExecutionException {
    HttpHeaders headers = headersFuture.get();
    return headers.getAll();
}
@Override
public Set<HttpMethod> get(long timeout, TimeUnit unit) throws InterruptedException, ExecutionException,
TimeoutException {
    HttpHeaders headers = headersFuture.get(timeout, unit);
    return headers.getAll();
}
}
};
}

```

```
// exchange
```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method, HttpEntity<?>
requestEntity,
    Class<T> responseType, Object... uriVariables) throws RestClientException {

    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method, HttpEntity<?>
requestEntity,
    Class<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

```

```

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(URI url, HttpMethod method, HttpEntity<?>
requestEntity,
    Class<T> responseType) throws RestClientException {

    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, responseType);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(responseType);
    return execute(url, method, requestCallback, responseExtractor);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method, HttpEntity<?>
requestEntity,
    ParameterizedTypeReference<T> responseType, Object... uriVariables) throws RestClientException {

    Type type = responseType.getType();
    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(String url, HttpMethod method, HttpEntity<?>
requestEntity,
    ParameterizedTypeReference<T> responseType, Map<String, ?> uriVariables) throws RestClientException {

    Type type = responseType.getType();
    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor, uriVariables);
}

@Override
public <T> ListenableFuture<ResponseEntity<T>> exchange(URI url, HttpMethod method, HttpEntity<?>
requestEntity,
    ParameterizedTypeReference<T> responseType) throws RestClientException {

    Type type = responseType.getType();
    AsyncRequestCallback requestCallback = httpEntityCallback(requestEntity, type);
    ResponseExtractor<ResponseEntity<T>> responseExtractor = responseEntityExtractor(type);
    return execute(url, method, requestCallback, responseExtractor);
}

// general execution

@Override

```

```

public <T> ListenableFuture<T> execute(String url, HttpMethod method, AsyncRequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor, Object... urlVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(urlVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> ListenableFuture<T> execute(String url, HttpMethod method, AsyncRequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor, Map<String, ?> urlVariables) throws RestClientException {

    URI expanded = new UriTemplate(url).expand(urlVariables);
    return doExecute(expanded, method, requestCallback, responseExtractor);
}

@Override
public <T> ListenableFuture<T> execute(URI url, HttpMethod method, AsyncRequestCallback requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

    return doExecute(url, method, requestCallback, responseExtractor);
}

/**
 * Execute the given method on the provided URI. The
 * { @link org.springframework.http.client.ClientHttpRequest }
 * is processed using the { @link RequestCallback }; the response with
 * the { @link ResponseExtractor }.
 * @param url the fully-expanded URL to connect to
 * @param method the HTTP method to execute (GET, POST, etc.)
 * @param requestCallback object that prepares the request (can be { @code null })
 * @param responseExtractor object that extracts the return value from the response (can
 * be { @code null })
 * @return an arbitrary object, as returned by the { @link ResponseExtractor }
 */
protected <T> ListenableFuture<T> doExecute(URI url, HttpMethod method, AsyncRequestCallback
requestCallback,
    ResponseExtractor<T> responseExtractor) throws RestClientException {

    Assert.notNull(url, "'url' must not be null");
    Assert.notNull(method, "'method' must not be null");
    try {
        AsyncClientHttpRequest request = createAsyncRequest(url, method);
        if (requestCallback != null) {
            requestCallback.doWithRequest(request);
        }
        ListenableFuture<ClientHttpResponse> responseFuture = request.executeAsync();
        return new ResponseExtractorFuture<T>(method, url, responseFuture, responseExtractor);
    }
}

```

```

catch (IOException ex) {
    throw new ResourceAccessException("I/O error on " + method.name() +
        " request for \"" + url + "\":" + ex.getMessage(), ex);
}
}

private void logResponseStatus(HttpMethod method, URI url, ClientHttpResponse response) {
    if (logger.isDebugEnabled()) {
        try {
            logger.debug("Async " + method.name() + " request for \"" + url + "\" resulted in " +
                response.getStatusCode() + " (" + response.getStatusText() + ")");
        }
        catch (IOException ex) {
            // ignore
        }
    }
}

private void handleResponseError(HttpMethod method, URI url, ClientHttpResponse response) throws IOException
{
    if (logger.isWarnEnabled()) {
        try {
            logger.warn("Async " + method.name() + " request for \"" + url + "\" resulted in " +
                response.getStatusCode() + " (" + response.getStatusText() + "); invoking error handler");
        }
        catch (IOException ex) {
            // ignore
        }
    }
    getErrorHandler().handleError(response);
}

/**
 * Returns a request callback implementation that prepares the request {@code Accept}
 * headers based on the given response type and configured {@code linkplain}
 * {@code #getMessageConverters()} message converters}.
 */
protected <T> AsyncRequestCallback acceptHeaderRequestCallback(Class<T> responseType) {
    return new AsyncRequestCallbackAdapter(this.syncTemplate.acceptHeaderRequestCallback(responseType));
}

/**
 * Returns a request callback implementation that writes the given object to the
 * request stream.
 */
protected <T> AsyncRequestCallback httpEntityCallback(HttpEntity<T> requestBody) {
    return new AsyncRequestCallbackAdapter(this.syncTemplate.httpEntityCallback(requestBody));
}

```

```

/**
 * Returns a request callback implementation that writes the given object to the
 * request stream.
 */
protected <T> AsyncRequestCallback httpEntityCallback(HttpEntity<T> request, Type responseType) {
    return new AsyncRequestCallbackAdapter(this.syncTemplate.httpEntityCallback(request, responseType));
}

/**
 * Returns a response extractor for { @link ResponseEntity }.
 */
protected <T> ResponseExtractor<ResponseEntity<T>> responseEntityExtractor(Type responseType) {
    return this.syncTemplate.responseEntityExtractor(responseType);
}

/**
 * Returns a response extractor for { @link HttpHeaders }.
 */
protected ResponseExtractor<HttpHeaders> headersExtractor() {
    return this.syncTemplate.headersExtractor();
}

/**
 * Future returned from
 * { @link #doExecute(Uri, HttpMethod, AsyncRequestCallback, ResponseExtractor) }
 */
private class ResponseExtractorFuture<T> extends ListenableFutureAdapter<T, ClientHttpResponse> {

    private final HttpMethod method;

    private final URI url;

    private final ResponseExtractor<T> responseExtractor;

    public ResponseExtractorFuture(HttpMethod method, URI url,
        ListenableFuture<ClientHttpResponse> clientHttpResponseFuture, ResponseExtractor<T> responseExtractor) {
        super(clientHttpResponseFuture);
        this.method = method;
        this.url = url;
        this.responseExtractor = responseExtractor;
    }

    @Override
    protected final T adapt(ClientHttpResponse response) throws ExecutionException {
        try {
            if (!getErrorHandler().hasError(response)) {

```

```

    logResponseStatus(this.method, this.url, response);
    }
    else {
        handleResponseError(this.method, this.url, response);
    }
    return convertResponse(response);
    }
    catch (IOException ex) {
        throw new ExecutionException(ex);
    }
    finally {
        if (response != null) {
            response.close();
        }
    }
}

protected T convertResponse(ClientHttpResponse response) throws IOException {
    return (this.responseExtractor != null ? this.responseExtractor.extractData(response) : null);
}

}

/**
 * Adapts a {@link RequestCallback} to the {@link AsyncRequestCallback} interface.
 */
private static class AsyncRequestCallbackAdapter implements AsyncRequestCallback {

    private final RequestCallback adaptee;

    /**
     * Create a new {@code AsyncRequestCallbackAdapter} from the given
     * {@link RequestCallback}.
     * @param requestCallback the callback to base this adapter on
     */
    public AsyncRequestCallbackAdapter(RequestCallback requestCallback) {
        this.adaptee = requestCallback;
    }

    @Override
    public void doWithRequest(final AsyncClientHttpRequest request) throws IOException {
        if (this.adaptee != null) {
            this.adaptee.doWithRequest(new ClientHttpRequest() {
                @Override
                public ClientHttpResponse execute() throws IOException {
                    throw new UnsupportedOperationException("execute not supported");
                }
            });
        }
    }
    @Override

```

```

public OutputStream getBody() throws IOException {
    return request.getBody();
}
@Override
public HttpMethod getMethod() {
    return request.getMethod();
}
@Override
public URI getURI() {
    return request.getURI();
}
@Override
public HttpHeaders getHeaders() {
    return request.getHeaders();
}
});
}
}
}

}
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 */

package org.springframework.web.bind.support;

/**
 * Simple implementation of the {@link SessionStatus} interface,
 * keeping the {@code complete} flag as an instance variable.
 *
 * @author Juergen Hoeller
 * @since 2.5
 */
public class SimpleSessionStatus implements SessionStatus {

```



```
private boolean complete = false;
```

```
@Override  
public void setComplete() {  
    this.complete = true;  
}
```

```
@Override  
public boolean isComplete() {  
    return this.complete;  
}
```

```
}
```

1.131 velocity 1.7

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