Java Server Pages

Lesson 6: JSP Configuration in Web.xml

Lesson Objectives

- In this lesson, you will learn:
  - Jsp-config tag in web.xml
  - Jsp-property-group configuration

6.1 Jsp-config tag in web.xml

Configuring Java Server Pages (JSPs)

- ▪ <jsp-config> tag is used to configure standard settings for JSP files in web.xml file. It contains two child tag

- ▪ jsp-property-group
  - ▪ A JSP property group is a collection of properties that apply to a set of files representing JSP pages.

- ▪ taglib
  - ▪ This element associates the location of a JSP Tag Library Descriptor (TLD) with a URI pattern.

<jsp-config> added in JSP2.0 in JEE4 specification.
taglib will be discussed in subsequent lesson of Custom Tags.

6.2: Jsp-property-group configuration
What we Can Do with JSP Property Groups

- We can configure the jsp-property-group to do the following:
  - Indicate that a resource is a JSP file (implicit).
  - Enable/Disable of JSP expression language (JSP EL) evaluation.
  - Enable/Disable of Scripting elements.
  - Indicate page Encoding information.
  - Define prelude and code includes
  - Indicate that a resource is a JSP document.

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We can configure a number of properties for a group of JSP pages through jsp-property-group tag in web.xml file. Such as enable or disable EL evaluation, enable or disable scripting elements, specify page encoding etc.

We can implicitly include preludes (also called headers) and codas (also called footers) for a group of JSP pages. When the elements are present, the given paths are automatically included (as in an include directive) at the beginning and end of each JSP page in the property group respectively.

6.2: Jsp-property-group configuration

JSP Property Groups attributes

ATTRIBUTE	DESCRIPTION	DEFAULT
url-pattern	Selects the URLs to which this jsp-config applies	
el-ignored	If true, EL expressions are ignored	FALSE
page-encoding	Defines the default page encoding for the JSP file	ISO-8859-1
scripting-invalid	If true, Java scripting is forbidden in the JSP page	FALSE
include-prelude	Includes JSP fragments before the JSP page as headers	
include-coda	Includes JSP fragments before the JSP page as footers	
default-content-type	Used to specify the default contentType property of a group of JSP pages.	text/html
buffer	Used to specify the default buffering model for the initial out JspWriter.	8Kb

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url-pattern : selects the URLs which this jsp-config applies to a group of jsp pages.
el-ignored : If true, EL expressions are ignored in the group of jsp pages specified in url-pattern.
page-encoding : Defines the default page encoding for the JSP file.
scripting-invalid : If true, Java scripting is forbidded in the group of jsp pages specified in url-pattern.
include-prelude : Includes JSP fragments before the group of jsp pages specified in url-pattern as headers.
include-coda : Includes JSP fragments before the group of jsp pages specified in url-pattern as footers
default-content-type : (Added in JSP2.2) Used to specify the default contentType property of a group of JSP pages.
Buffer : (Added in JSP2.2) Used to specify the default buffering model for the initial out JspWriter for the group of jsp pages specified in url-pattern.

6.2: Jsp-property-group configuration

Illustration

```
<jsp-config>
  <jsp-property-group>
    <display-name>WildFlyServer</display-name>
    <url-pattern>/views/*</url-pattern>
    <el-ignored>false</el-ignored>
    <scripting-invalid>false</scripting-invalid>
<include-prelude>/template/CompanyHeader.jsp</include-prelude>
    <include-coda>/template/Copyright.jsp</include-coda>
    <default-content-type>text/html</default-content-type>
  </jsp-property-group>
</jsp-config>
```

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In the above illustration, properties are applied to the JSP pages in the views folder.
So, all JSP pages in that folder will include CompanyHeader.jsp as header and
Copyright.jsp as footer.

Demo

- Working with jsp-property-group configuration:
  - header.jsp
  - footer.jsp
  - contents.jsp
  - checkEL.jsp
  - checkScripting.jsp

Demo

Deploy web application **Lesson6-JSP_Config** and show demo by executing each of the above JSP pages.

Lab: JSP property group configuration

- Lab 2.3

Summary

- In this lesson, you have learnt about:
  - JSP configuration in web.xml
  - Jsp-property-group tag in web.xml

Summary

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Review Question

- Question 1: Which of the following tag can not be defined inside jsp-property-group tag?
  - Option 1: el-ignored
  - Option 2: buffer
  - Option 3: jsp-config
  - Option 4: is-xml

- Question 2: Which of the following tag is used to ignored EL expression in JSP page group ?
  - is-el-ignored
  - el-ignored
  - ignore-el

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Review Question

- Question 3: Which of the following tag provide the JSP group url ?
  - Option 1: jsp-url
  - Option 2: url-param
  - Option 3: url-pattern
  - Option 4: url-group