Working with Standard Actions



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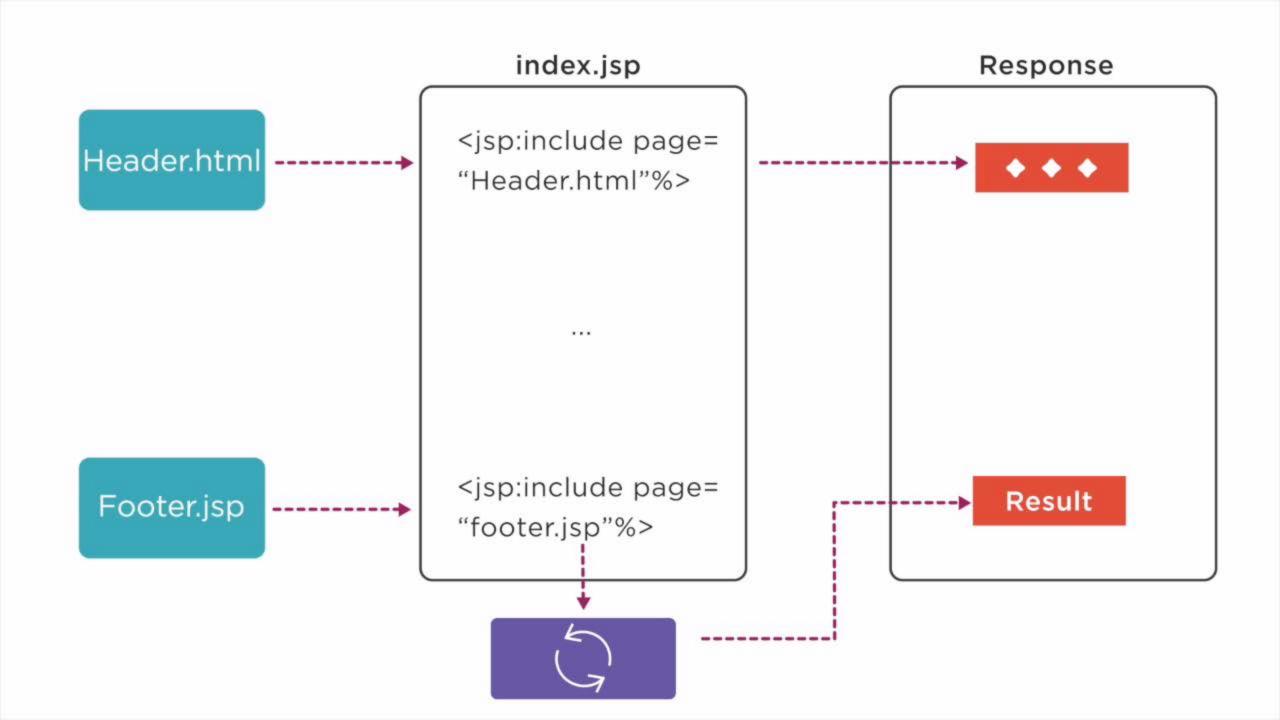
JSP Standard Actions

```
<jsp:include>
<jsp:forward>
<jsp:param>
<jsp:useBean>
<jsp:setProperty>
<jsp:getProperty>
<jsp:plugins>
<jsp:fallback>
<jsp:attribute>
<jsp:body>
<jsp:invoke>
<jsp:element>
<jsp:text>
```



<jsp:include>





<jsp:include page="url flush="true false"/>

Syntax

<jsp:include>



main.jsp

```
<%page language="java"%>
<html>
<head>
<title>The include Action Example</title>
</head>
<body>
<center>
<h2>The include Action Example</h2>
<jsp:include page="date.jsp"
flush="true"/>
</center>
Copyright©Pluralsight
</body>
</html>
```

date.jsp

```
Date:<%=(new
    java.util.Date()).toLocaleString()%>
```



? What is the difference between include action and include directive



Include directive

(<%@include%>)

Copies the code from one page to another page

Copies the code during the translation time

Generates only one Servlet

Static Binding

Include action

(jsp:include)

Copies the results from one page to another page

Copies the output during the runtime

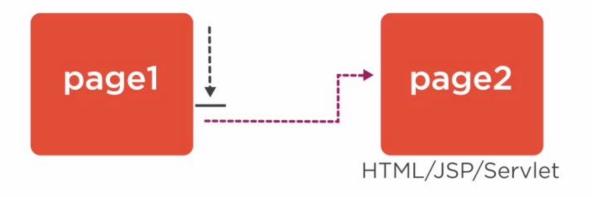
Generates two Servlets

Performs Dynamic Binding



<jsp:forward>





<jsp:forward=getRequestDispatcher().forward()</pre>



JSP page must be buffered to use a <jsp:forward > tag



<jsp:forward page="url"/>

Syntax

<jsp:forward> action tag



main.jsp

```
<%page language="java"%>
<html>
<head>
<title>The forward Action Example</title>
</head>
<body>
<center>
<h2>The forward Action Example</h2>
<jsp:forward page="date.jsp"
flush="true"/>
</center>
Copyright©Pluralsight
</body>
</html>
```

date.jsp

```
Date:<%=(new java.util.Date()).toLocaleString()%>
```



<jsp:forward> | Sendredirect

Direct communication between source and destination pages

Uses same request and response object

Source and destination pages should belong to same application

Indirect communication between source and destination page

Uses separate request and response object

Can be in one same application/different application/same server/different server



<jsp:param>



<jsp:param name="..." value="..."/>

Syntax



<jsp:param>

Used as a sub-tag for include, forward or plugin action



main.jsp

```
<%page language="java"%>
<html>
<head>
<title>The include Action
Example</title>
</head>
<body>
<jsp:forward page="course.jsp">
<jsp:param name="courseName"
value="JAVA">
<jsp:param name="trainer</pre>
"value="Sekhar Srinivasan">
</jsp forward>
</body>
</html>
```

course.jsp

```
<%page language="java"%>
<html>
<head>
<title>The include Action
  Example</title>
</head>
<body>
<h2>Course Details:</h2>
Course
  Name:<%request.getParameter
("courseName")%>
Trainer:<%request.getParameter</p>
("trainer")%>
</body>
</html>
```



<jsp:useBean>



<jsp:useBean>

useBean action is a way for declaring and initializing the actual java bean component object



```
public class JavaBeanName implements Serializable
{
public class JavaBeanName(){}
private String propertyName;
public void setPropertyName(String value){this.propertyName=value;}
public void getPropertyName(){return this.propertyname;}
}
```

What is Java Bean?



<jsp:useBean attributes/>

Syntax

<jsp:useBean>



Attributes of <jsp:useBean>

```
id
class
scope
   page
   request
   session
   application
```

type

beanName



<jsp:setProperty>



```
<jsp:setProperty name= "
property="propertyName|*"
value="..."param="..."/>
```

Syntax

<jsp:setProperty>



main.jsp

```
<form name="fl"
action="setName.jsp">
First Name:<input type="text"</p>
name="firstName"
id="lastName"/>
LastName:<input type="text"</p>
name="lastName"id="lastName"/>
<input
type="submit"value="Submit"/>
</form>
```

setName.jsp

```
<jsp:useBean id="nameBean"
  class="com.psdemos.model.Name"
  scope="session">
<jsp:setProperty name="nameBean"</pre>
property="firstName"
params="firstName"/>
<jsp:setPropertyname="nameBean"</pre>
property="lastName"
params="lastName"/>
</isp:useBean>
```

main.jsp

```
<form name="f1"
action="setName.jsp">
First Name:<input type="text"</p>
name="firstName"
id="lastName"/>
lastName:<input type="text"</p>
name="lastName"id="lastName"/>
<input
type="submit"value="Submit"/>
</form>
```

setName.jsp

```
<jsp:useBean id="nameBean"
   class="com.psdemos.model.Name"
   scope="session">

<jsp:useBean id="nameBean"
   property="*"/>
</jsp:useBean>
```

<jsp:getProperty>



<jsp:getProperty name="..." property="..."/>

Syntax

<jsp:getProperty>



setName.jsp

```
<jsp:useBean id="nameBean" class="com.psdemos.model.Name"</pre>
scope="session">
<jsp:useBean id="nameBean" property="*"/>
</jsp:useBean>
First Name : <jsp:setProperty name="nameBean"property="firstName"/>
Last Name :<jsp:setProperty name="nameBean"property="lastName"/>
<a href="getName.jsp">Read Value</a>
```



getName.jsp

```
<jsp:useBean id="nameBean" class="com.psdemos.model.Name"
scope="session">
First Name:<jsp:getProperty name="nameBean" property="firstName"/>
Last Name :<jsp:getProperty name="nameBean" property="lastName"/>
</isp:useBean>
<hr/>
First Name :<jsp:getProperty name="nameBean"property="firstName"/>
Last Name :<jsp:getProperty name="nameBean"property="lastName"/>
```



<jsp:plugins> and <jsp:fallback>



```
<jsp:plugin type="bean | applet " code="..."codebase="...">
<jsp:params>
<jsp:param name="..." value="...">
</jsp:params>
</jsp:plugin>
```

Syntax

<jsp:plugin>



Optional attributes type, align, height, width, name, title

<jsp:plugins> and <jsp:fallback>



<jsp:fallback>

used to provide some meaning information to the client's browser if the requested plugin cannot be started



```
<jsp:plugin type ="bean | applet" code="..."codebase="...">
<jsp:fallback>
 Error while loading the applet
</jsp:fallback>
</jsp:plugin>
```

Syntax

<jsp:fallback>





Element Action

Without a body

With a body



<jsp:element name="elementName"/>

Syntax

<jsp:element> without a body



```
<jsp:element name="elementName">
<jsp:attribute>...</jsp:attribute>
<jsp:body>...</jsp:body>
</jsp:element>
```

Syntax

<jsp:element> witha body



Demo



Working with Standard Actions



Summary



```
<jsp:include>
<jsp:forward>
<jsp:param>
<jsp:useBean>
<jsp:setProperty>
```

<jsp:getProperty>

<jsp:plugins>

<jsp:fallback>

<jsp:attribute>

<jsp:body>

<jsp:invoke>

<jsp:element>

<jsp:text>

