**Built In Actions in Struts**

Three built in Actions classes are provided by the Struts Framework

1. ForwardAction: This class is used when we want to move from one page to other page. It can configyured in struts-config.xml file as follows

<action-mapping>

<action path=”some\_action\_name” type=”org.apache.struts.actions.ForwardAction” parameter=”second\_page\_name.jsp”/>

Other way

<action path=”some\_action\_name” forward=”second\_page\_name.jsp”/>

</action-mapping>

1. IncludeAction: This class is useful when we want first page contents in other page we are redirecting to. It can be configures in struts-config.xml as follows:

<action-mapping>

<action path=”some\_action\_name” type=”org.apache.struts.actions.IncludeAction” parameter=”second\_page\_name.jsp”/>

Other way

<action path=”some\_action\_name” include=”second\_page\_name.jsp”/>

</action-mapping>

1. SwitchAction: This class is useful when we want to forward to page after doing some operations in between for example when we are submitting a form then database access is performed and a success page is displayed confirming the successful insertion of the data. but if we want to perform task before displaying that data then we have to use SwichAction class of Struts Framework
2. LocaleAction:
3. DownloadAction: If we want download some data that is stored at the server side then we use this Action Class of struts framework to download that same data from the server to web browser through byte stream.
4. ExceptionHandler: If we want handle some exception so that our program doesn’t throw any exception at runtime then we use this ExceptionHandler Action Class of the struts framework to handle our exceptions

Example of ForwardAction

1. First.jsp

<%@taglib uri=*"http://struts.apache.org/tags-html"* prefix=*"html"* %>

<div style="background-color:*aqua*;

color:*red*">

HELLO

</div>

<html:link action=”/hai”></html:link>

1. Second.jsp

<%@taglib uri=*"http://struts.apache.org/tags-html"* prefix=*"html"* %>

<div style="background-color:*black*;

color:*red*">

HAI

</div>

1. Web.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"* id=*"WebApp\_ID"* version=*"3.1"*>

<display-name>ForwardAction</display-name>

<welcome-file-list>

<welcome-file>first.jsp</welcome-file>

</welcome-file-list>

<servlet>

<servlet-name>action</servlet-name>

<servlet-class>org.apache.struts.action.ActionServlet</servlet-class>

<init-param>

<param-name>config</param-name>

<param-value>/WEB-INF/struts-config.xml</param-value>

</init-param>

<load-on-startup>1</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>action</servlet-name>

<url-pattern>\*.do</url-pattern>

</servlet-mapping>

</web-app>

1. Struts-config.xml

<!DOCTYPE struts-config PUBLIC

"-//Apache Software Foundation//DTD Struts Configuration 1.3//EN"

"http://struts.apache.org/dtds/struts-config\_1\_3.dtd">

<struts-config>

<action-mappings>

<!-- old approach -->

<!-- <action path="/hai" type="org.apache.struts.actions.ForwardAction" parameter="/second.jsp"/>

-->

<!-- new Approach -->

<action path=*"/hai"* forward=*"/second.jsp"*/>

</action-mappings>

</struts-config>

Example of IncludeAction Class of Struts

1. First.jsp

<%@taglib uri=*"http://struts.apache.org/tags-html"* prefix=*"html"* %>

<div style="background-color:*aqua*;

color:*red*">

HELLO

</div>

<jsp:include page=*"/hai.do"*/>

1. Second.jsp

<%@taglib uri=*"http://struts.apache.org/tags-html"* prefix=*"html"* %>

<div style="background-color:*black*;

color:*red*">

HAI

</div>

1. Web.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"* id=*"WebApp\_ID"* version=*"3.1"*>

<display-name>ForwardAction</display-name>

<welcome-file-list>

<welcome-file>first.jsp</welcome-file>

</welcome-file-list>

<servlet>

<servlet-name>action</servlet-name>

<servlet-class>org.apache.struts.action.ActionServlet</servlet-class>

<init-param>

<param-name>config</param-name>

<param-value>/WEB-INF/struts-config.xml</param-value>

</init-param>

<load-on-startup>1</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>action</servlet-name>

<url-pattern>\*.do</url-pattern>

</servlet-mapping>

</web-app>

1. Struts-config.xml

<!DOCTYPE struts-config PUBLIC

"-//Apache Software Foundation//DTD Struts Configuration 1.3//EN"

"http://struts.apache.org/dtds/struts-config\_1\_3.dtd">

<struts-config>

<action-mappings>

<!-- old approach -->

<action path=*"/hai"* type=*"org.apache.struts.actions.IncludeAction"* parameter=*"/second.jsp"*/>

<!-- new Approach -->

<!--<action path="/hai" include="/second.jsp"/>-->

</action-mappings>

</struts-config>