**An Example of Generic Tags in Struts 2x**

1. Web.xml

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

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://java.sun.com/xml/ns/javaee" xmlns:web="http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd" id="WebApp\_ID" version="2.5">

<display-name>GenericTags</display-name>

<welcome-file-list>

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

</welcome-file-list>

<filter>

<filter-name>struts2</filter-name>

<filter-class>org.apache.struts2.dispatcher.FilterDispatcher</filter-class>

</filter>

<filter-mapping>

<filter-name>struts2</filter-name>

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

</filter-mapping>

</web-app>

1. Index.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@ taglib prefix="s" uri="/struts-tags" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>STRUTS 2 Generic Tags</title>

</head>

<body>

<div align="center">

<h2><s:text name="app.welcome"/></h2>

<br><hr>

</div>

<s:date name="new java.util.Date()" format="%{getText('app.date.format')}"/>

<br><br>

<s:a href="yourcity.jsp">Using if, elseif and else tag</s:a>

<br><br>

<s:url id="url" namespace="/generictags" action="iterateAction"/>

<s:a href="%{url}">Iteration</s:a>

<br><br>

<s:a href="person.jsp">User Info</s:a>

</body>

</html>

1. Yourcity.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@ taglib prefix="s" uri="/struts-tags" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>STRUTS 2 Generic Tags</title>

</head>

<body>

<s:form namespace="/generictags" action="cityAction" method="post">

<s:select name="city" key="app.city" list="#{'Delhi':'Delhi','Colombo':'Colombo','Paris':'Paris','Pune':'Pune'}"/>

<s:submit/>

</s:form>

<s:if test="city!=null">

<s:if test="city=='Delhi'">

<hr width="400" align="left">

<b>Using if tag:</b>Delhi is the capital of India.

</s:if>

<hr width="400" align="left">

<b>Using if and else tag:</b>

<s:if test="city=='Paris'">

Paris is the capital of France.

</s:if>

<s:else>

This is not the capital of France.

</s:else>

<hr width="400" align="left">

<b>Using if elseif and else tag:</b>

<s:if test="city=='Delhi'">

Capital of India.

</s:if>

<s:elseif test="city=='Pune'">

An Indian City.

</s:elseif>

<s:else>

A Non-India City.

</s:else>

</s:if>

<br><br>

<a href="/GenericTags/jsp/GenericTags/index.jsp">B A C K</a>

</body>

</html>

1. Iterator.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@ taglib prefix="s" uri="/struts-tags" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>STRUTS 2 Generic Tags</title>

</head>

<body>

<b>Using Iterator</b>

<s:iterator status="stat" value="{23,12,34,12,15,89}">

[ <s:property value="#stat.index"/> | <s:property value="top"/> ]

<s:if test="#stat.last==false">, </s:if>

</s:iterator>

<br><br>

<b>Using generator and iterator tag:</b>

<s:generator separator="," val="%{'Mon, Tue, Wed, Thu, Fri, Sat, Sun'}" count="6" id="someid">

<s:iterator>

<s:property/>

</s:iterator>

</s:generator>

<br><br>

<b>Iterating over the Arraylist:</b><br>

ArrayList Fruits:

<s:iterator value="fruits">

<s:property/>

</s:iterator>

<br>

ArrayList Cities:

<s:iterator value="cities">

<s:property/>

</s:iterator>

<br>

ArrayList Colors:

<s:iterator value="colors">

<s:property/>

</s:iterator>

<br><br>

<b>Appending Iterators:</b><br>

<s:append id="appendItr">

<s:param value="%{fruits}"/>

<s:param value="%{cities}"/>

<s:param value="%{colors}"/>

</s:append>

<s:iterator value="%{#appendItr}">

<s:property/>,

</s:iterator>

<br><br>

<b>Merging Iterators:</b><br>

<s:merge id="mergeItr">

<s:param value="%{fruits}"/>

<s:param value="%{cities}"/>

<s:param value="%{colors}"/>

</s:merge>

<s:iterator value="%{#mergeItr}">

<s:property/>,

</s:iterator>

<br><br>

<b>Using subset and Iterator tags:</b><br>

With count = 3:

<s:subset source="cities" count="3">

<s:iterator>

<s:property/>

</s:iterator>

</s:subset>

<br>With count = 2:

<s:subset source="cities" count="2">

<s:iterator>

<s:property/>

</s:iterator>

</s:subset>

<br>With count = 2 and start = 1:

<s:subset source="cities" start="1" count="2">

<s:iterator>

<s:property/>

</s:iterator>

</s:subset>

<br><br>

<a href="/GenericTags/jsp/GenericTags/index.jsp">B A C K</a>

</body>

</html>

1. Person.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@ taglib prefix="s" uri="/struts-tags" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>STRUTS 2 Generic Tags</title>

</head>

<body>

<s:include value="header.jsp"/>

<br><br><b>Running Action and its result</b><br><br>

<s:action namespace="/generictags" name="personAction" executeResult="true"/>

<br><br><b>Using bean tag</b><br><br>

<s:bean name="com.struts2.generictags.PersonAction">

<s:param name="name">Cognizant</s:param>

<s:param name="address">ASV Complex</s:param>

<s:param name="city">Chennai</s:param>

User's Name:<s:property value="name"/><br><br>

Address:<s:property value="address"/><br><br>

City:<s:property value="city"/><br><br>

</s:bean>

<s:include value="footer.jsp"/>

</body>

</html>

1. Person.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<%@ taglib prefix="s" uri="/struts-tags" %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>STRUTS 2 Generic Tags</title>

</head>

<body>

User's Name : <s:property value="name"/><br><br>

Address : <s:property value="address"/><br><br>

City : <s:property value="city"/><br><br>

</body>

</html>

1. Footer.jsp

<table align="center" bgcolor="#d5f0f9" width="100%">

<tr>

<td height="28" align="center">

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</td>

</tr>

</table>

1. Header.jsp

<table align="center" bgcolor="#d5f0f9" width="100%">

<tr>

<td height="28" align="center">

<b>User Info</b>

</td>

</tr>

</table>

1. Struts.xml

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

<!DOCTYPE struts PUBLIC

"-//Apache Software Foundation//DTD Struts Configuration 2.0//EN"

"http://struts.apache.org/dtds/struts-2.0.dtd">

<struts>

<constant name="struts.custom.i18n.resources" value="ApplicationResources" />

<package name="generictags" namespace="/generictags" extends="struts-default">

<action name="cityAction" class="com.struts2.generictags.CityAction">

<result>/jsp/GenericTags/yourcity.jsp</result>

</action>

<action name="iterateAction" class="com.struts2.generictags.IterateAction">

<result>/jsp/GenericTags/iterator.jsp</result>

</action>

<action name="personAction" class="com.struts2.generictags.PersonAction">

<result>/jsp/GenericTags/user.jsp</result>

</action>

</package>

</struts>

1. ApplicationResources.properties

app.age=Age

app.username.blank=Username should not be blank.

app.password.blank=Password should not be blank.

app.email.blank=Emails should not be blank.

app.invalid=The User Id and Password do not match.

app.welcome=Generic Tag Examples

app.date.format=dd MMMM,yyyy

app.city=Select Your City

1. CityAction Class

package com.struts2.generictags;

import com.opensymphony.xwork2.ActionSupport;

public class CityAction extends ActionSupport

{

public String execute() throws Exception

{

return SUCCESS;

}

private String city;

public String getCity()

{

return city;

}

public void setCity(String city)

{

this.city = city;

}

}

1. IterateAction Class

package com.struts2.generictags;

import java.util.ArrayList;

import com.opensymphony.xwork2.ActionSupport;

public class IterateAction extends ActionSupport

{

public String execute() throws Exception

{

fruits = new ArrayList<String>();

cities = new ArrayList<String>();

colors = new ArrayList<String>();

fruits.add("Apple");

fruits.add("Mango");

fruits.add("Orange");

cities.add("Delhi");

cities.add("Mumbai");

cities.add("Pune");

colors.add("Red");

colors.add("Green");

colors.add("Blue");

return SUCCESS;

}

ArrayList<String> fruits;

ArrayList<String> cities;

ArrayList<String> colors;

public ArrayList<String> getFruits()

{

return fruits;

}

public void setFruits(ArrayList<String> fruits)

{

this.fruits = fruits;

}

public ArrayList<String> getCities()

{

return cities;

}

public void setCities(ArrayList<String> cities)

{

this.cities = cities;

}

public ArrayList<String> getColors()

{

return colors;

}

public void setColors(ArrayList<String> colors)

{

this.colors = colors;

}

}

1. PersonAction Class

package com.struts2.generictags;

import com.opensymphony.xwork2.ActionSupport;

public class PersonAction extends ActionSupport

{

public String execute() throws Exception

{

setName("John");

setAddress("Lawrence Street");

setCity("London");

return SUCCESS;

}

private String name;

private String address;

private String city;

public String getName()

{

return name;

}

public void setName(String name)

{

this.name = name;

}

public String getAddress()

{

return address;

}

public void setAddress(String address)

{

this.address = address;

}

public String getCity()

{

return city;

}

public void setCity(String city)

{

this.city = city;

}

}