



# BEA WebLogic Workshop™ Help

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# struts Samples

This section contains source code for the following samples.

## Samples Included in This Section

Index.jsp Sample

StrutsController.jspf Sample

strutsInterop Samples

strutsMerge Samples

strutsModule Samples

validation Samples

## Index.jsp Sample

This topic includes the source code for the Index.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/

## Sample Source Code

```
<%@ page language="java" contentType="text/html; charset=UTF-8"%>  
<%@ taglib uri="netui-tags-databinding.tld" prefix="netui-data"%>  
<%@ taglib uri="netui-tags-html.tld" prefix="netui"%>  
<%@ taglib uri="netui-tags-template.tld" prefix="netui-template"%>  
<netui:base />  
<netui:html>  
    <head>  
        <title>  
            Web Application Samples: Struts  
        </title>  
        <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>  
    </head>  
    <body>  
        <jsp:include page="/resources/jsp/header.jsp"/>  
        <h3>Page Flow Samples: Struts</h3>  
        <p>These samples show how use Struts features in a Page Flow.</p>  
        <blockquote>  
  
            <hr>  
            <p><netui:anchor action="toStrutsInterop">Struts interoperation</netui:anchor>  
            <p>This sample shows how a Page Flow can interoperate with any Struts application.  
            <p>Source Code: SamplesApp/WebApp.struts/strutsInterop/  
            <hr>  
            <p><netui:anchor action="toStrutsMerge">Struts merging</netui:anchor>  
            <p>Shows how a Page Flow application can be merged with the functionality in a Struts a  
            <p>Source Code: SamplesApp/WebApp.struts/strutsMerge/  
            <p>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <hr>  
            <p><netui:anchor action="toValidation">Validating user data with Struts</netui:anchor>  
            <p>Source Code: SamplesApp/WebApp.struts/validation/  
        </blockquote>  
  
        <hr>  
        <netui:anchor action="toPageFlowSamples">Back to Web Application Samples Home</netui:an  
    </body>  
</netui:html>
```

# StrutsController.jspf Sample

This topic includes the source code for the StrutsController.jspf Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/

## Sample Source Code

```
package struts;
import com.bea.wlw.netui.pageflow.Forward;
import com.bea.wlw.netui.pageflow.PageFlowController;

/**
 * @jpf:controller
 * @jpf:view-properties view-properties::
 * <!-- This data is auto-generated. Hand-editing this section is not recommended. -->
 * <view-properties>
 * <pageflow-object id="pageflow:/struts/strutsController.jspf"/>
 * <pageflow-object id="action:begin.do">
 *   <property value="80" name="x"/>
 *   <property value="100" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:toValidation.do">
 *   <property value="380" name="x"/>
 *   <property value="40" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:toStrutsMerge.do">
 *   <property value="380" name="x"/>
 *   <property value="100" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:toStrutsInterop.do">
 *   <property value="380" name="x"/>
 *   <property value="180" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:toPageFlowSamples.do">
 *   <property value="380" name="x"/>
 *   <property value="260" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:index.jsp#@@action:toPageFlowSamples.do@">
 *   <property value="276,310,310,344" name="elbowsX"/>
 *   <property value="92,92,252,252" name="elbowsY"/>
 *   <property value="East_1" name="fromPort"/>
 *   <property value="West_1" name="toPort"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:index.jsp#@@action:toStrutsInterop.do@">
 *   <property value="276,310,310,344" name="elbowsX"/>
 *   <property value="92,92,172,172" name="elbowsY"/>
 *   <property value="East_1" name="fromPort"/>
 *   <property value="West_1" name="toPort"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:index.jsp#@@action:toStrutsMerge.do@">
 *   <property value="276,310,310,344" name="elbowsX"/>
 *   <property value="92,92,92,92" name="elbowsY"/>

```

## navstruts.html Sample

```
* <property value="East_1" name="fromPort"/>
* <property value="West_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="action-call:@page:index.jsp##@action:toValidation.do@">
*   <property value="276,310,310,344" name="elbowsX"/>
*   <property value="92,92,32,32" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="page:index.jsp">
*   <property value="240" name="x"/>
*   <property value="100" name="y"/>
* </pageflow-object>
* <pageflow-object id="external-jpf:validation/Controller.jpf">
*   <property value="500" name="x"/>
*   <property value="40" name="y"/>
* </pageflow-object>
* <pageflow-object id="external-jpf:strutsMerge/strutsMergeController.jpf">
*   <property value="500" name="x"/>
*   <property value="100" name="y"/>
* </pageflow-object>
* <pageflow-object id="external-jpf:strutsInterop/strutsInteropController.jpf">
*   <property value="500" name="x"/>
*   <property value="180" name="y"/>
* </pageflow-object>
* <pageflow-object id="external-jpf:/Controller.jpf">
*   <property value="500" name="x"/>
*   <property value="260" name="y"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#index.jsp#@action:begin.do@">
*   <property value="116,160,160,204" name="elbowsX"/>
*   <property value="92,92,92,92" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#validation/Controller.jpf#@action:toValidation.do@">
*   <property value="416,440,440,464" name="elbowsX"/>
*   <property value="32,32,32,32" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#strutsMerge/strutsMergeController.jpf#@action:toSt">
*   <property value="416,440,440,464" name="elbowsX"/>
*   <property value="92,92,92,92" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#strutsInterop/strutsInteropController.jpf#@action:">
*   <property value="416,440,440,464" name="elbowsX"/>
*   <property value="172,172,172,172" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#/Controller.jpf#@action:toPageFlowSamples.do@">
*   <property value="416,440,440,464" name="elbowsX"/>
*   <property value="252,252,252,252" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
```



## navstruts.html Sample

```
*   <property value="West_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* </view-properties>
* ::
*/
public class strutsController extends PageFlowController
{

    /**
     * @jpf:action
     * @jpf:forward name="success" path="index.jsp"
     */
    protected Forward begin()
    {
        return new Forward("success");
    }

    /**
     * @jpf:action
     * @jpf:forward path="validation/Controller.jspf" name="success"
     */
    protected Forward toValidation()
    {
        return new Forward("success");
    }

    /**
     * @jpf:action
     * @jpf:forward path="strutsMerge/strutsMergeController.jspf" name="success"
     */
    protected Forward toStrutsMerge()
    {
        return new Forward("success");
    }

    /**
     * @jpf:action
     * @jpf:forward path="strutsInterop/strutsInteropController.jspf" name="success"
     */
    protected Forward toStrutsInterop()
    {
        return new Forward("success");
    }

    /**
     * @jpf:action
     * @jpf:forward path="/Controller.jspf" name="success"
     */
    protected Forward toPageFlowSamples()
    {
        return new Forward("success");
    }
}
```

# strutsInterop Samples

This section contains source code for the following samples.

## Samples Included in This Section

Done.jsp Sample

JpfFormBean.java Sample

Jsp1.jsp Sample

Jsp3.jsp Sample

Merge-jpf-struts-config.xml Sample

StrutsInteropController.jsp Sample

# Done.jsp Sample

This topic includes the source code for the Done.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsInterop/

## Sample Source Code

```
<%@ page language="java" contentType="text/html; charset=UTF-8"%>
<%@taglib prefix="netui" uri="netui-tags-html.tld"%>
<html>
  <head>
    <title>Struts Interop/Merge Example</title>
    <netui:base/>
  </head>
  <body>
    <h2 align="center">Struts Interop/Merge Example - This is done.jsp</h2>
    <hr align="center" width="95%" />
    <br/>
    <center>
      <font color="green"><h2>Example completed successfully.</h2></font>
      <br/>
      <netui:anchor href="/WebApp/struts/strutsController.jspf">Return to Struts Samples</netui:anchor>
      <br/><br/>
      <hr align="center" width="95%" />
    </center>
  </body>
</html>
```

# JpfFormBean.java Sample

This topic includes the source code for the JpfFormBean.java Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsInterop/

## Sample Source Code

```
package struts.strutsInterop;

import com.bea.wlw.netui.pageflow.FormData;

/*****
 * JpfFormBean
 * This is a Page Flow form bean. It will be instantiated by the page flow
 * and passed to struts module: strutsModule then passed back to the page
 * flow. At each step the value of "Field1" will be changed to demonstrate
 * that the same instance of the form is being passed between page flow and
 * struts.
 *****/
public class JpfFormBean extends com.bea.wlw.netui.pageflow.FormData
{
    public final static String FORM_VALUE = "Form bean Field1 default value set by the form b
    private String field1 = this.FORM_VALUE;

    /*****
     * Constructor
     *****/
    public JpfFormBean()
    {
        super();
    }

    /*****
     * Field1
     *****/
    public void setField1(String inField1)
    {
        this.field1 = inField1;
    }
    public String getField1()
    {
        return this.field1;
    }
}
```

# Jsp1.jsp Sample

This topic includes the source code for the Jsp1.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsInterop/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <title>Struts Interop/Merge Example</title>
    <netui:base/>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body bgcolor=white style="margin:0">

    <jsp:include page="/resources/jsp/header.jsp"/>

    <blockquote>

      <h3 align="center">This page, Jsp1.jsp, is part of page flow strutsInteropController</h3>
      <hr width="95%" />
      <br />

      <p>After reading the following explanation about this Struts Interop/Merge example, please click the Continue link near the bottom of the page.

      <p>This example demonstrates the complete interoperability between page flows and Struts. The strutsInteropController page flow instantiates a form bean, JpfFormBean, then passes this form to the Struts module: strutsModule. </p>

      <p>The Struts module will then alter the contents of the form and pass it back to the page flow. Because page flow forms derive from Struts forms, this sharing of the form bean is possible.</p>

      <p>Page flows by default scope form bean instances to the request. But because in this example we want to pass the form bean from the page flow to the struts module, strutsModule, we must scope the form bean to the session. We do this by using the "struts-merge" attribute on the "@jpf:controller" annotation in the strutsInteropController.jpf source file. This attribute will cause the contents of the specified Struts XML file to be merged-in with the generated jpf-struts-config-strutsInterop.xml file. In the event of a naming conflict, artifacts the Struts "merge" file always takes precedence.</p>

      <p>The form bean we use in this example has a single field, "field1". At each step the action (whether page flow or Struts) will update the value of "field1" so you can see that the same instance of the form is being passed around.</p>

      <p>Also note that the Jsp1.jsp (this JSP) and Jsp3.jsp pages are part of the
```

## navstruts.html Sample

```
page flow, while Jsp2.jsp is associated with the Struts module. </p>

<center>
  <font color="red" size="4">
    <netui:form action="jpfAction1">
      <netui:label value="{actionForm.field1}"/>
    </netui:form>
  </font>
  <br/>
  <netui:anchor action="jpfAction1">Continue</netui:anchor>
</center>

<p>&nbsp;</p>

<p>&nbsp;</p>

</blockquote>
</body>
</html>
```

# Jsp3.jsp Sample

This topic includes the source code for the Jsp3.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsInterop/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <title>Struts Interop/Merge Example</title>
    <netui:base/>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>
  <body bgcolor=white style="margin:0">
    <jsp:include page="/resources/jsp/header.jsp"/>

    <blockquote>

      <h3 align="center">This page, Jsp3.jsp, is part of page flow
      strutsInteropController</h3>
      <hr width="95%" />
      <br/>
      <font color="blue">
        <h3 align="center">This is a page flow JSP page.</h3>
        <p>This one raises "jpfAction3".</p>
      </font>
      <center>
        <font color="red" size="4">
          <netui:form action="jpfAction3">
            <netui:label value="{actionForm.field1}"/>
          </netui:form>
        </font>
        <br/>
        <netui:anchor action="jpfAction3">Continue</netui:anchor>
      </center>

    </blockquote>
  </body>
</html>
```

# Merge-jpf-struts-config.xml Sample

This topic includes the source code for the Merge-jpf-struts-config.xml Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsInterop/

## Sample Source Code

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE struts-config PUBLIC
    "-//Apache Software Foundation//DTD Struts Configuration 1.1//EN"
    "http://jakarta.apache.org/struts/dtds/struts-config_1_1.dtd">

<struts-config>

    <!-- ===== Form Bean Definitions ===== -->
    <form-beans>
    </form-beans>

    <!-- ===== Global Forward Definitions ===== -->
    <global-forwards>
    </global-forwards>

    <!-- ===== Action Mapping Definitions ===== -->

    <!--
    Page flows by default scope form bean instances to the request. But
    because in this example we want to pass the form bean from the page
    flow to the struts module: strutsModule we must scope the form bean to
    the session. We do this by using the "struts-merge" attribute on the
    "@jpf:controller" annotation in the strutsInteropController.jpf source
    file. This attribute will cause the contents of this xml file to be
    merged in with the generated jpf-struts-config-strutsInterop.xml file.
    In the event of a conflict, *THIS* file always wins.
    -->

    <action-mappings>
        <action
            path="/jpfAction1"
            scope="session" >
        </action>
        <action
            path="/jpfAction2"
            scope="session" >
        </action>
        <action
            path="/jpfAction3"
            scope="session" >
        </action>
    </action-mappings>

</struts-config>
```



# StrutsInteropController.jspf Sample

This topic includes the source code for the StrutsInteropController.jspf Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsInterop/

## Sample Source Code

```
// -----  
//  Generated by WebLogic Workshop  
//  
//  Created on: Tue Jun 10 13:16:21 EDT 2003  
//  By: smart  
// -----  
package struts.strutsInterop;  
  
import com.bea.wlw.netui.pageflow.Forward;  
import com.bea.wlw.netui.pageflow.PageFlowController;  
import struts.strutsInterop.JpfFormBean;  
  
/**  
 * @jpf:controller struts-merge="/struts/strutsInterop/merge-jpf-struts-config.xml"  
 * @jpf:view-properties view-properties: :  
 * <!-- This data is auto-generated. Hand-editing this section is not recommended. -->  
 * <view-properties>  
 *   <pageflow-object id="pageflow:/struts/strutsInterop/strutsInteropController.jspf"/>  
 *   <pageflow-object id="action:begin.do">  
 *     <property value="40" name="x"/>  
 *     <property value="100" name="y"/>  
 *   </pageflow-object>  
 *   <pageflow-object id="action:jpfAction1.do#struts.strutsInterop.JpfFormBean">  
 *     <property value="320" name="x"/>  
 *     <property value="100" name="y"/>  
 *   </pageflow-object>  
 *   <pageflow-object id="action:jpfAction2.do#struts.strutsInterop.JpfFormBean">  
 *     <property value="660" name="x"/>  
 *     <property value="60" name="y"/>  
 *   </pageflow-object>  
 *   <pageflow-object id="action:jpfAction3.do#struts.strutsInterop.JpfFormBean">  
 *     <property value="660" name="x"/>  
 *     <property value="260" name="y"/>  
 *   </pageflow-object>  
 *   <pageflow-object id="action-call:@page:Jsp1.jsp#@action:jpfAction1.do#struts.strutsInterop."  
 *     <property value="236,260,260,284" name="elbowsX"/>  
 *     <property value="92,92,92,92" name="elbowsY"/>  
 *     <property value="East_1" name="fromPort"/>  
 *     <property value="West_1" name="toPort"/>  
 *   </pageflow-object>  
 *   <pageflow-object id="page:Jsp1.jsp">  
 *     <property value="200" name="x"/>  
 *     <property value="100" name="y"/>  
 *   </pageflow-object>  
 *   <pageflow-object id="action-call:@page:Jsp3.jsp#@action:jpfAction3.do#struts.strutsInterop."
```

## navstruts.html Sample

```

*   <property value="660,660,660,660" name="elbowsX" />
*   <property value="204,210,210,216" name="elbowsY" />
*   <property value="South_1" name="fromPort" />
*   <property value="North_1" name="toPort" />
* </pageflow-object>
* <pageflow-object id="page:Jsp3.jsp">
*   <property value="660" name="x" />
*   <property value="160" name="y" />
* </pageflow-object>
* <pageflow-object id="page:done.jsp">
*   <property value="660" name="x" />
*   <property value="360" name="y" />
* </pageflow-object>
* <pageflow-object id="forward:path#gotoPg1#Jsp1.jsp#@action:begin.do@">
*   <property value="76,120,120,164" name="elbowsX" />
*   <property value="92,92,92,92" name="elbowsY" />
*   <property value="East_1" name="fromPort" />
*   <property value="West_1" name="toPort" />
*   <property value="gotoPg1" name="label" />
* </pageflow-object>
* <pageflow-object id="forward:path#gotoStruts#/strutsModule/strutsAction1.do#@action:jpfAction1.do">
*   <property value="356,390,390,424" name="elbowsX" />
*   <property value="92,92,92,92" name="elbowsY" />
*   <property value="East_1" name="fromPort" />
*   <property value="West_1" name="toPort" />
*   <property value="gotoStruts" name="label" />
* </pageflow-object>
* <pageflow-object id="forward:path#gotoPg3#Jsp3.jsp#@action:jpfAction2.do#struts.strutsInterop">
*   <property value="660,660,660,660" name="elbowsX" />
*   <property value="104,110,110,116" name="elbowsY" />
*   <property value="South_1" name="fromPort" />
*   <property value="North_1" name="toPort" />
*   <property value="gotoPg3" name="label" />
* </pageflow-object>
* <pageflow-object id="forward:path#gotoDone#/struts/strutsInterop/done.jsp#@action:jpfAction3.do">
*   <property value="660,660,660,660" name="elbowsX" />
*   <property value="304,310,310,316" name="elbowsY" />
*   <property value="South_1" name="fromPort" />
*   <property value="North_1" name="toPort" />
*   <property value="gotoDone" name="label" />
* </pageflow-object>
* <pageflow-object id="page:/error.jsp">
*   <property value="360" name="x" />
*   <property value="380" name="y" />
* </pageflow-object>
* <pageflow-object id="action:/strutsModule/strutsAction1.do">
*   <property value="460" name="x" />
*   <property value="100" name="y" />
* </pageflow-object>
* </view-properties>
* ::
* /
public class strutsInteropController extends PageFlowController
{
    protected global.Global globalApp;

    public static final String FORM_VALUE = "Form bean Field1 value set by the page flow control"

    /**
     * @jpf:action
     * @jpf:forward name="gotoPg1" path="Jsp1.jsp"

```

## navstruts.html Sample

```
    */
protected Forward begin()
{
    return new Forward("gotoPg1");
}

/**
 * This action method will set the value of Field1 of the form bean to
 * its value the forward to the "strutsAction1" action in the struts module: strutsModule.
 *
 * @jpf:action
 * @jpf:forward name="gotoStruts" path="/strutsModule/strutsAction1.do"
 */
protected Forward jpfAction1(JpfFormBean inForm)
{
    inForm.setField1(this.FORM_VALUE);
    return new Forward("gotoStruts");
}

/**
 * This action method was raised by an action in the struts module: strutsModule.
 *
 * @jpf:action
 * @jpf:forward name="gotoPg3" path="Jsp3.jsp"
 */
protected Forward jpfAction2(JpfFormBean inForm)
{
    return new Forward("gotoPg3");
}

/**
 * @jpf:action
 * @jpf:forward name="gotoDone" path="/struts/strutsInterop/done.jsp"
 */
protected Forward jpfAction3(JpfFormBean inForm)
{
    return new Forward("gotoDone");
}
}
```

# **strutsMerge Samples**

This section contains source code for the following samples.

## **Samples Included in This Section**

Page1.jsp Sample

Page2.jsp Sample

StrutsMergeController.jspf Sample

# Page1.jsp Sample

This topic includes the source code for the Page1.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsMerge/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <netui:base/>
    <title>Merging Struts Functionality with Page Flow</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body bgcolor=white style="margin:0">

    <jsp:include page="/resources/jsp/header.jsp"/>

    <blockquote>

      <h3>Merging Struts Functionality with Page Flow</h3>

      <p>This sample shows how functionality from an "all Struts"
      application's configuration XML file can be merged with
      a page flow application. The /strutsMerge/strutsMergeController.jspf
      file contains a @jpf:controller annotation that uses a struts-merge
      attribute. The attribute references the all-struts-config-merge-example.xml
      file that is in this web project's /WEB-INF directory (required location).</p>

      <p>To demonstrate this Struts Merge feature, the deliberately undefined "foo.do" action
      that is referenced on this JSP page will use an action method in the strutsMergeController.
      "unk". This action method is the "unknown" handler. It forwards to a global forward
      ("fromStrutsConfig") that is defined in the merged file; that is, after the WebApp
      project was compiled, the Struts functionality from /WEB-INF/all-struts-config-merge-exampl
      was merged with the XML file generated for this page flow. The combined configuration file
      /strutsMerge page flow is /WEB-INF/jpf-struts-config-strutsMerge.xml. </p>

      <hr width=50% size=1>

      <p>&nbsp;</p>

      <p>Okay, are you ready to try it? Click the link below, which raises the
      unknown action "foo":

      <p>&nbsp;</p>

      <p><netui:anchor href="foo.do">This link raises an unknown action named
      "foo"</netui:anchor></p>
```

## navstruts.html Sample

```
<p>&nbsp;</p>  
  
</blockquote>  
  
</body>  
</html>
```

# Page2.jsp Sample

This topic includes the source code for the Page2.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsMerge/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <netui:base/>
    <title>Merging Struts Functionality with Page Flow</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body bgcolor=white style="margin:0">

    <jsp:include page="/resources/jsp/header.jsp"/>

    <blockquote>

      <h3>StrutsMerge Sample - page2.jsp</h3>

      <p>The global action named "fromStrutsConfig" resulted in the forward
      from page1.jsp to page2.jsp, via the unknown handler. The global action
      was defined in the /WEB-INF/all-struts-config-merge-example.xml file. At compile-time
      it was incorporated into the strutsMerge page flow configuration:

      <p>/WEB-INF/jpf-struts-config-strutsMerge.xml

      <hr width=50% size=1>

      <p>&nbsp;</p>

      <p><netui:anchor action="begin">Re-run this sample</netui:anchor>

      <p>&nbsp;</p>

      <p><netui:anchor href="/WebApp/struts/strutsController.jspf">Return to Struts Samples</netui:anchor>

    </blockquote>
  </body>
</html>
```

# StrutsMergeController.jspf Sample

This topic includes the source code for the StrutsMergeController.jspf Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsMerge/

## Sample Source Code

```
// -----  
//  Generated by WebLogic Workshop  
//  
//  Created on: Tue May 27 09:47:59 PDT 2003  
//  By: smart  
// -----  
package struts.strutsMerge;  
import com.bea.wlw.netui.pageflow.Forward;  
import com.bea.wlw.netui.pageflow.PageFlowController;  
import com.bea.wlw.netui.pageflow.FormData;  
  
/**  
 * @jpf:controller struts-merge="/WEB-INF/all-struts-config-merge-example.xml"  
 * @jpf:view-properties view-properties:  
 * <!-- This data is auto-generated. Hand-editing this section is not recommended. -->  
 * <view-properties>  
 * <pageflow-object id="pageflow:/struts/strutsMerge/strutsMergeController.jspf"/>  
 * <pageflow-object id="action:begin.do">  
 *   <property value="40" name="x"/>  
 *   <property value="60" name="y"/>  
 * </pageflow-object>  
 * <pageflow-object id="action:unk.do">  
 *   <property value="360" name="x"/>  
 *   <property value="200" name="y"/>  
 * </pageflow-object>  
 * <pageflow-object id="action:formAction.do#struts.strutsMerge.strutsMergeController.Form">  
 *   <property value="240" name="x"/>  
 *   <property value="260" name="y"/>  
 * </pageflow-object>  
 * <pageflow-object id="page:page1.jsp">  
 *   <property value="240" name="x"/>  
 *   <property value="60" name="y"/>  
 * </pageflow-object>  
 * <pageflow-object id="action-call:@page:page2.jsp#@action:begin.do@">  
 *   <property value="40,40,40,40" name="elbowsX"/>  
 *   <property value="216,160,160,104" name="elbowsY"/>  
 *   <property value="North_1" name="fromPort"/>  
 *   <property value="South_1" name="toPort"/>  
 * </pageflow-object>  
 * <pageflow-object id="page:page2.jsp">  
 *   <property value="40" name="x"/>  
 *   <property value="260" name="y"/>  
 * </pageflow-object>  
 * <pageflow-object id="forward:path#page1#page1.jsp#@action:formAction.do#struts.strutsMerge.s"  
 *   <property value="240,240,240,240" name="elbowsX"/>  
 * </pageflow-object>
```



## navstruts.html Sample

```

*   <property value="216,160,160,104" name="elbowsY"/>
*   <property value="North_1" name="fromPort"/>
*   <property value="South_1" name="toPort"/>
*   <property value="page1" name="label"/>
* </pageflow-object>
* <pageflow-object id="formbean:struts.strutsMerge.strutsMergeController.Form"/>
* <pageflow-object id="forward:path#page1#page1.jsp#@action:begin.do@">
*   <property value="76,140,140,204" name="elbowsX"/>
*   <property value="52,52,52,52" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="page1" name="label"/>
* </pageflow-object>
* </view-properties>
* ::
*/
public class strutsMergeController extends PageFlowController
{
    /**
     * @jpf:action
     * @jpf:forward name="page1" path="page1.jsp"
     */
    protected Forward begin()
    {
        return new Forward( "page1" );
    }

    /**
     * This action method gets run after we successfully merge the struts config
     * file, which marks this action as the "unknown" handler. It forwards
     * to a global forward ("fromStrutsConfig") that is in the merged file.
     */
    * @jpf:action
    */
    public Forward unk()
    {
        return new Forward( "fromStrutsConfig" );
    }

    /**
     * This action's form-scope will be changed to "session".
     */
    * @jpf:action
    * @jpf:forward name="page1" path="page1.jsp"
    */
    public Forward formAction( Form form )
    {
        return new Forward( "page1" );
    }

    public static class Form extends FormData
    {
    }
}

```

## **strutsModule Samples**

This section contains source code for the following samples.

### **Samples Included in This Section**

Jsp2.jsp Sample

# Jsp2.jsp Sample

This topic includes the source code for the Jsp2.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/strutsModule/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@taglib uri="http://jakarta.apache.org/struts/tags-html" prefix="html" %>
<%@ page import="org.apache.struts.action.ActionForm" %>
<%@ page import="struts.strutsInterop.JpfFormBean" %>

<html>
  <head>
    <title>JSP 2</title>
  </head>
  <body>
    <h3 align="center">Struts JSP page: Jsp2.jsp</h3>
    <hr width="95%" />
    <br />
    <font color="blue">
      <h3 align="center">This JSP page is part of Struts module strutsModule.</h3>
    </font>
    <center>
      <font color="red" size="4">
        <p>
          <%
            JpfFormBean tmpForm = (JpfFormBean) request.getSession().getAttribute("jpfFormB
            out.write(tmpForm.getField1());
          %>
        </font>
        <br /><br />
        <p>The following is a Struts tag.</p>
        <p>
          <html:link action="strutsAction2">Continue</html:link>
        </p>
      </center>
    </body>
  </html>
```

# validation Samples

This section contains source code for the following samples.

## Samples Included in This Section

basic Samples

Controller.jspf Sample

Index.jsp Sample

validator Samples

# basic Samples

This section contains source code for the following samples.

## Samples Included in This Section

Controller.jspf Sample

FormPage.jsp Sample

Success.jsp Sample

# Controller.jspf Sample

This topic includes the source code for the Controller.jspf Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/basic/

## Sample Source Code

```
package struts.validation.basic;

import com.bea.wlw.netui.pageflow.*;
import org.apache.struts.action.*;
import javax.servlet.http.*;

/**
 * @jpf:controller nested="true"
 * @jpf:message-resources resources="validation.basic.Messages"
 * @jpf:view-properties view-properties::
 * <!-- This data is auto-generated. Hand-editing this section is not recommended. -->
 * <view-properties>
 * <pageflow-object id="pageflow:/validation/basic/Controller.jspf"/>
 * <pageflow-object id="action:begin.do">
 *   <property value="80" name="x"/>
 *   <property value="80" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:submitForm.do#validation.basic.Controller.Form">
 *   <property value="220" name="x"/>
 *   <property value="220" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:exit.do">
 *   <property value="340" name="x"/>
 *   <property value="80" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:formPage.jsp@##action:submitForm.do#validation.basic.">
 *   <property value="220,220,220,220" name="elbowsX"/>
 *   <property value="124,150,150,176" name="elbowsY"/>
 *   <property value="South_1" name="fromPort"/>
 *   <property value="North_1" name="toPort"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:formPage.jsp@##action:exit.do@">
 *   <property value="256,280,280,304" name="elbowsX"/>
 *   <property value="72,72,72,72" name="elbowsY"/>
 *   <property value="East_1" name="fromPort"/>
 *   <property value="West_1" name="toPort"/>
 * </pageflow-object>
 * <pageflow-object id="page:formPage.jsp">
 *   <property value="220" name="x"/>
 *   <property value="80" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:success.jsp@##action:begin.do@">
 *   <property value="80,80,80,80" name="elbowsX"/>
 *   <property value="176,150,150,124" name="elbowsY"/>

```

## navstruts.html Sample

```

*   <property value="North_1" name="fromPort"/>
*   <property value="South_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="page:success.jsp">
*   <property value="80" name="x"/>
*   <property value="220" name="y"/>
* </pageflow-object>
* <pageflow-object id="forward:path#formPage#formPage.jsp#@action:begin.do@">
*   <property value="116,150,150,184" name="elbowsX"/>
*   <property value="72,72,72,72" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="formPage" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#success.jsp#@action:submitForm.do#validation.basic">
*   <property value="184,150,150,116" name="elbowsX"/>
*   <property value="212,212,212,212" name="elbowsY"/>
*   <property value="West_1" name="fromPort"/>
*   <property value="East_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* <pageflow-object id="return-to:@forward:return-to#failure#currentPage#@action:submitForm.do#validation.basic">
*   <property value="340" name="x"/>
*   <property value="220" name="y"/>
* </pageflow-object>
* <pageflow-object id="forward:return-to#failure#currentPage#@action:submitForm.do#validation.basic">
*   <property value="256,280,280,304" name="elbowsX"/>
*   <property value="212,212,212,212" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="failure" name="label"/>
* </pageflow-object>
* <pageflow-object id="exit:begin">
*   <property value="480" name="x"/>
*   <property value="140" name="y"/>
* </pageflow-object>
* <pageflow-object id="forward:return-action#previousPageFlowBegin#begin#@action:exit.do@">
*   <property value="376,410,410,444" name="elbowsX"/>
*   <property value="72,72,132,132" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="previousPageFlowBegin" name="label"/>
* </pageflow-object>
* <pageflow-object id="formbeanprop:validation.basic.Controller.Form#email#java.lang.String"/>
* <pageflow-object id="formbeanprop:validation.basic.Controller.Form#zipCode#java.lang.String"/>
* <pageflow-object id="formbean:validation.basic.Controller.Form"/>
* </view-properties>
* ::
*
*/
public class Controller extends PageFlowController
{
    /**
     * @jpf:action
     * @jpf:forward name="formPage" path="formPage.jsp"
     */
    public Forward begin()
    {
        return new Forward( "formPage" );
    }
}

```

## navstruts.html Sample

```
/**
 * @jpf:action
 * @jpf:forward name="success" path="success.jsp"
 * @jpf:validation-error-forward name="failure" return-to="currentPage"
 */
public Forward submitForm( Form form )
{
    return new Forward( "success" );
}

/**
 * @jpf:action
 * @jpf:forward name="previousPageFlowBegin" return-action="begin"
 */
public Forward exit()
{
    return new Forward( "previousPageFlowBegin" );
}

/**
 * This form bean does validation manually.
 */
public static class Form extends FormData
{
    private String _email;
    private String _zipCode;

    public String getEmail()
    {
        return _email;
    }

    public void setEmail( String email )
    {
        _email = email;
    }

    public String getZipCode()
    {
        return _zipCode;
    }

    public void setZipCode( String zipCode )
    {
        _zipCode = zipCode;
    }

    public ActionErrors validate( ActionMapping mapping, HttpServletRequest request )
    {
        ActionErrors errs = new ActionErrors();

        int at = _email.indexOf( '@' );
        int dot = _email.lastIndexOf( '.' );

        if ( at == -1 || at == 0 || dot == -1 || at > dot )
        {
            errs.add( "email", new ActionError( "badEmail" ) );
        }

        if ( _zipCode.length() != 5 )

```



## navstruts.html Sample

```
{
    errs.add( "zipCode", new ActionError( "badZip", new Integer( 5 ) ) );
}

return errs;
}
}
```

# FormPage.jsp Sample

This topic includes the source code for the FormPage.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/basic/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <netui:base/>
    <title>Basic Form Validation with Page Flows:Form Page</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body>

    <jsp:include page="/resources/jsp/header.jsp"/> <br/>

    <blockquote>

      <h3>Basic Form Validation with Page Flows</h3>
      <h4>Form Page</h4>

      <p>The validation for this form's fields is very basic. However, by keeping the
      validation rules simple, we can focus on how:

      <ul type="square">
        <li>The ActionErrors() method in the page flow was used.</li>
        <li>Error text came from the Messages.properties file in
        /WEB-INF/classes/basic.</li>
      </ul>

      <netui:form action="submitForm">
        <table>
          <tr>
            <td><p>Enter E-mail Address:</p></td>
            <td>
              <netui:textBox dataSource="{actionForm.email}"/>
            </td>
            <td>
              <netui:error value="email"/>
            </td>
          </tr>

          <tr>
            <td><p>Enter 5-digit Zip Code:</p></td>
            <td>
              <netui:textBox dataSource="{actionForm.zipCode}"/>
            </td>
          </tr>
        </table>
      </netui:form>
    </blockquote>
  </body>
</html>
```

## navstruts.html Sample

```
        </td>
        <td>
            <netui:error value="zipCode"/>
        </td>
    </tr>
</table>

    <netui:button>Submit</netui:button>
    <netui:button action="exit">Exit</netui:button>
</netui:form>

<netui:errors/>

</blockquote>

</body>
</html>
```

# Success.jsp Sample

This topic includes the source code for the Success.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/basic/

## Sample Source Code

```
<!--Generated by WebLogic Workshop-->
<%@ page language="java" contentType="text/html; charset=UTF-8"%>
<%@ taglib uri="netui-tags-databinding.tld" prefix="netui-data"%>
<%@ taglib uri="netui-tags-html.tld" prefix="netui"%>
<%@ taglib uri="netui-tags-template.tld" prefix="netui-template"%>

<netui:html>
<html>
  <head>
    <netui:base/>
    <title>Form Validation with Page Flows: Success Page</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body>

    <jsp:include page="/resources/jsp/header.jsp" /> <br/>
    <blockquote>

      <h3>Success!</h3>

      <p>All fields passed form validation.</p>

      <hr width="90%">

      <p>Navigation Options:</p>

      <p> <netui:anchor action="begin">Re-run this sample</netui:anchor></p>
      <p> <netui:anchor href="../../Controller.jspf" >Return to Validation Samples</netui:anchor>
      <p> <netui:anchor href="../../Controller.jspf" >Return to Web Application Samples Ho

    </blockquote>
  </body>
</netui:html>
```

# Controller.jspf Sample

This topic includes the source code for the Controller.jspf Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/

## Sample Source Code

```
package struts.validation;

import com.bea.wlw.netui.pageflow.*;
import org.apache.struts.action.*;
import javax.servlet.http.*;

/**
 * @jpf:message-resources resources="validation.ValidationMessages"
 * @jpf:view-properties view-properties::
 * <!-- This data is auto-generated. Hand-editing this section is not recommended. -->
 * <view-properties>
 * <pageflow-object id="pageflow:/validation/Controller.jspf"/>
 * <pageflow-object id="action:begin.do">
 *   <property value="80" name="x"/>
 *   <property value="300" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:doBasic.do">
 *   <property value="420" name="x"/>
 *   <property value="400" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:doValidator.do">
 *   <property value="420" name="x"/>
 *   <property value="200" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="page:index.jsp">
 *   <property value="420" name="x"/>
 *   <property value="300" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="external-jpf:basic/Controller.jspf">
 *   <property value="420" name="x"/>
 *   <property value="520" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="external-jpf:validator/Controller.jspf">
 *   <property value="420" name="x"/>
 *   <property value="80" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="forward:path#index#index.jsp#@action:begin.do@">
 *   <property value="116,250,250,384" name="elbowsX"/>
 *   <property value="292,292,292,292" name="elbowsY"/>
 *   <property value="East_1" name="fromPort"/>
 *   <property value="West_1" name="toPort"/>
 *   <property value="index" name="label"/>
 * </pageflow-object>
 * <pageflow-object id="forward:path#basicValidationPageFlow#basic/Controller.jspf#@action:doBas
```

## navstruts.html Sample

```
* <property value="420,420,420,420" name="elbowsX"/>
* <property value="444,460,460,476" name="elbowsY"/>
* <property value="South_1" name="fromPort"/>
* <property value="North_1" name="toPort"/>
* <property value="basicValidationPageFlow" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#validatorPageFlow#validator/Controller.jspf#@action:doValid
* <property value="420,420,420,420" name="elbowsX"/>
* <property value="156,140,140,124" name="elbowsY"/>
* <property value="North_1" name="fromPort"/>
* <property value="South_1" name="toPort"/>
* <property value="validatorPageFlow" name="label"/>
* </pageflow-object>
* <pageflow-object id="action-call:@external-jpf:basic/Controller.jspf#@action:begin.do@">
* <property value="384,250,250,116" name="elbowsX"/>
* <property value="512,512,303,303" name="elbowsY"/>
* <property value="West_1" name="fromPort"/>
* <property value="East_2" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="action-call:@external-jpf:validator/Controller.jspf#@action:begin.do@">
* <property value="384,250,250,116" name="elbowsX"/>
* <property value="72,72,281,281" name="elbowsY"/>
* <property value="West_1" name="fromPort"/>
* <property value="East_0" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="action-call:@page:index.jsp#@action:doValidator.do@">
* <property value="420,420,420,420" name="elbowsX"/>
* <property value="256,250,250,244" name="elbowsY"/>
* <property value="North_1" name="fromPort"/>
* <property value="South_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="action-call:@page:index.jsp#@action:doBasic.do@">
* <property value="420,420,420,420" name="elbowsX"/>
* <property value="344,350,350,356" name="elbowsY"/>
* <property value="South_1" name="fromPort"/>
* <property value="North_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="action:done.do">
* <property value="600" name="x"/>
* <property value="300" name="y"/>
* </pageflow-object>
* <pageflow-object id="action-call:@page:index.jsp#@action:done.do@">
* <property value="456,510,510,564" name="elbowsX"/>
* <property value="292,292,292,292" name="elbowsY"/>
* <property value="East_1" name="fromPort"/>
* <property value="West_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="forward:path#done#/Controller.jspf#@action:done.do@">
* <property value="600,600,600,600" name="elbowsX"/>
* <property value="344,350,350,356" name="elbowsY"/>
* <property value="South_1" name="fromPort"/>
* <property value="North_1" name="toPort"/>
* <property value="done" name="label"/>
* </pageflow-object>
* <pageflow-object id="external-jpf:/Controller.jspf">
* <property value="600" name="x"/>
* <property value="400" name="y"/>
* </pageflow-object>
* </view-properties>
* ::
*
```

## navstruts.html Sample

```
*/
public class Controller extends PageFlowController
{
    /**
     * @jpf:action
     * @jpf:forward name="index" path="index.jsp"
     */
    public Forward begin()
    {
        return new Forward( "index" );
    }

    /**
     * @jpf:action
     * @jpf:forward name="basicValidationPageFlow" path="basic/Controller.jpf"
     */
    public Forward doBasic()
    {
        return new Forward( "basicValidationPageFlow" );
    }

    /**
     * @jpf:action
     * @jpf:forward name="validatorPageFlow" path="validator/Controller.jpf"
     */
    public Forward doValidator()
    {
        return new Forward( "validatorPageFlow" );
    }

    /**
     * This method represents an exit out of this pageflow
     * @jpf:action
     * @jpf:forward name="done" path="/Controller.jpf"
     */
    public Forward done()
    {
        return new Forward( "done" );
    }
}
```

# Index.jsp Sample

This topic includes the source code for the Index.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/

## Sample Source Code

```
<%@ page language="java" contentType="text/html; charset=UTF-8"%>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <netui:base/>
    <title>Form Validation with Page Flows</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body>
    <jsp:include page="/resources/jsp/header.jsp"/> <br/>

    <blockquote>

      <h3>Form Validation with Page Flows</h3>

      <p>This sample shows two ways of doing form validation with page flows.
      </p>

      <ul type="square">
        <li><netui:anchor action="doBasic">Basic form validation</netui:anchor><br><br></li>
        <li><netui:anchor action="doValidator">Form validation using the Struts ValidatorPl
      </ul>

      <p>&nbsp;</p>
      <hr width="90%">
    </blockquote>

    <p><netui:anchor href="/WebApp/struts/strutsController.jspf">Return to Web Application S
  </body>
</html>
```



# validator Samples

This section contains source code for the following samples.

## Samples Included in This Section

Controller.jspf Sample

FormPage.jsp Sample

Success.jsp Sample

# Controller.jspf Sample

This topic includes the source code for the Controller.jspf Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/validator/

## Sample Source Code

```
package struts.validation.validator;

import com.bea.wlw.netui.pageflow.*;
import org.apache.struts.action.*;
import javax.servlet.http.*;

/**
 * @jpf:controller nested="true" struts-merge="/WEB-INF/strutsValidator-merge-config.xml"
 * @jpf:message-resources resources="validation.validator.Messages"
 * @jpf:view-properties view-properties::
 * <!-- This data is auto-generated. Hand-editing this section is not recommended. -->
 * <view-properties>
 * <pageflow-object id="pageflow:/validation/validator/Controller.jspf"/>
 * <pageflow-object id="action:begin.do">
 *   <property value="40" name="x"/>
 *   <property value="60" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:submitForm.do#validation.validator.Controller.MyForm">
 *   <property value="260" name="x"/>
 *   <property value="200" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action:exit.do">
 *   <property value="420" name="x"/>
 *   <property value="60" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:formPage.jsp@##action:submitForm.do#validation.validator.Controller.MyForm">
 *   <property value="260,260,260,260" name="elbowsX"/>
 *   <property value="104,130,130,156" name="elbowsY"/>
 *   <property value="South_1" name="fromPort"/>
 *   <property value="North_1" name="toPort"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:formPage.jsp@##action:exit.do@">
 *   <property value="296,340,340,384" name="elbowsX"/>
 *   <property value="52,52,52,52" name="elbowsY"/>
 *   <property value="East_1" name="fromPort"/>
 *   <property value="West_1" name="toPort"/>
 * </pageflow-object>
 * <pageflow-object id="page:formPage.jsp">
 *   <property value="260" name="x"/>
 *   <property value="60" name="y"/>
 * </pageflow-object>
 * <pageflow-object id="action-call:@page:success.jsp@##action:begin.do@">
 *   <property value="40,40,40,40" name="elbowsX"/>
 *   <property value="156,130,130,104" name="elbowsY"/>

```

## navstruts.html Sample

```

*   <property value="North_1" name="fromPort"/>
*   <property value="South_1" name="toPort"/>
* </pageflow-object>
* <pageflow-object id="page:success.jsp">
*   <property value="40" name="x"/>
*   <property value="200" name="y"/>
* </pageflow-object>
* <pageflow-object id="forward:path#formPage#formPage.jsp#@action:begin.do@">
*   <property value="76,150,150,224" name="elbowsX"/>
*   <property value="52,52,52,52" name="elbowsY"/>
*   <property value="East_1" name="fromPort"/>
*   <property value="West_1" name="toPort"/>
*   <property value="formPage" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:path#success#success.jsp#@action:submitForm.do#validation.valida
*   <property value="224,150,150,76" name="elbowsX"/>
*   <property value="192,192,192,192" name="elbowsY"/>
*   <property value="West_1" name="fromPort"/>
*   <property value="East_1" name="toPort"/>
*   <property value="success" name="label"/>
* </pageflow-object>
* <pageflow-object id="forward:return-to#failure#currentPage#@action:submitForm.do#validation.
*   <property value="260,260,260,260" name="elbowsX"/>
*   <property value="244,270,270,296" name="elbowsY"/>
*   <property value="South_1" name="fromPort"/>
*   <property value="North_1" name="toPort"/>
*   <property value="failure" name="label"/>
* </pageflow-object>
* <pageflow-object id="exit:begin">
*   <property value="420" name="x"/>
*   <property value="200" name="y"/>
* </pageflow-object>
* <pageflow-object id="forward:return-action#previousPageFlowBegin#begin#@action:exit.do@">
*   <property value="420,420,420,420" name="elbowsX"/>
*   <property value="104,130,130,156" name="elbowsY"/>
*   <property value="South_1" name="fromPort"/>
*   <property value="North_1" name="toPort"/>
*   <property value="previousPageFlowBegin" name="label"/>
* </pageflow-object>
* <pageflow-object id="formbeanprop:validation.validator.Controller.MyForm#email#java.lang.Str
* <pageflow-object id="formbeanprop:validation.validator.Controller.MyForm#age#java.lang.Strin
* <pageflow-object id="formbean:validation.validator.Controller.MyForm"/>
* <pageflow-object id="return-to:@forward:return-to#failure#currentPage#@action:submitForm.do#
*   <property value="260" name="x"/>
*   <property value="340" name="y"/>
* </pageflow-object>
* </view-properties>
* ::
*
*/
public class Controller extends PageFlowController
{
    /**
     * @jpf:action
     * @jpf:forward name="formPage" path="formPage.jsp"
     */
    public Forward begin()
    {
        return new Forward( "formPage" );
    }
}

```

## navstruts.html Sample

```
/**
 * @jpf:action
 * @jpf:validation-error-forward name="failure" return-to="currentPage"
 * @jpf:forward name="success" path="success.jsp"
 */
public Forward submitForm( MyForm form )
{
    return new Forward( "success" );
}

/**
 * @jpf:action
 * @jpf:forward name="previousPageFlowBegin" return-action="begin"
 */
public Forward exit()
{
    return new Forward( "previousPageFlowBegin" );
}

/**
 * This form bean uses the ValidatorPlugIn (rules are in /WEB-INF/strutsValidator-validation.xml)
 */
public static class MyForm extends org.apache.struts.validator.ValidatorForm
{
    private String _email;
    private String _age;

    public String getEmail()
    {
        return _email;
    }

    public void setEmail( String email )
    {
        _email = email;
    }

    public String getAge()
    {
        return _age;
    }

    public void setAge( String age )
    {
        _age = age;
    }
}
}
```

# FormPage.jsp Sample

This topic includes the source code for the FormPage.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/validator/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <netui:base/>
    <title>Form Validation with Page Flow and Struts ValidatorPlugin: Form Page</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body>

    <jsp:include page="/resources/jsp/header.jsp" /> <br/>
    <blockquote>

      <h3>Form Validation with Page Flow and Struts ValidatorPlugin</h3>
      <h4>Form Page</h4>

      <p>Like the basic validation example, the validation for this form's
      fields is deliberately simple. By keeping the validation rules
      simple, we can focus on the following:</p>

      <ul type="square">
        <li>The form bean that's defined in the /validator/Controller.jspf
        page flow class used the Struts ValidatorPlugIn.</li>

        <li>The validation rules were defined in /WEB-INF/strutsValidator-validation.xml.
        This XML was made available to the current /validator/Controller.jspf page flow via
        a merged Struts module, /WEB-INF/strutsValidator-merge-config.xml.
        </li>

        <li>Error text came from the Messages.properties file in
        /WEB-INF/classes/validator.</li>
      </ul>

      <netui:form action="submitForm">
        <table>
          <tr>
            <td><p>Enter E-mail address:</p></td>
            <td>
              <netui:textBox dataSource="{actionForm.email}" />
            </td>
          </tr>
        </table>
      </netui:form>
    </blockquote>
  </body>
</html>
```

## navstruts.html Sample

```
        <netui:error value="email"/>
    </td>
</tr>

<tr>
    <td><p>Enter Age:</p></td>
    <td>
        <netui:textBox dataSource="{actionForm.age}"/>
    </td>
    <td>
        <netui:error value="age"/>
    </td>
</tr>
</table>

    <netui:button>Submit</netui:button>
    <netui:button action="exit">Exit</netui:button>
</netui:form>

<netui:errors/>

</blockquote>

</body>
</html>
```

# Success.jsp Sample

This topic includes the source code for the Success.jsp Sample.

## Sample Location

This sample is located in the following directory in your WebLogic Workshop installation:

BEA\_HOME/weblogic81/samples/workshop/SamplesApp/WebApp/struts/validation/validator/

## Sample Source Code

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ taglib uri="netui-tags-html.tld" prefix="netui" %>

<html>
  <head>
    <netui:base/>
    <title>Form Validation with Page Flow and Merged Struts ValidatorPlugin: Success Page</title>
    <link href="../../resources/css/style.css" type="text/css" rel="stylesheet"/>
  </head>

  <body>

    <jsp:include page="/resources/jsp/header.jsp" /> <br/>
    <blockquote>

      <h3>Form Validation with Page Flow and Merged Struts ValidatorPlugin</h3>
      <h4>Success Page</h4>

      <p>All fields passed form validation.</p>

      <hr width="90%">

      <p>Navigation Options:</p>

      <p> <netui:anchor action="begin">Re-run this sample</netui:anchor></p>
      <p> <netui:anchor href="../../Controller.jspf" >Return to Validation Samples</netui:anchor>
      <p> <netui:anchor href="../../Controller.jspf" >Return to Web Application Samples Home</netui:anchor>

    </blockquote>

  </body>
</html>
```