















GROUND

JSF Tutorial

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When user interacts with components, such as `h:commandButton` or `h:link`, the JSF fires a action events which can be handled in two ways.

Technique	Description
Method Binding	Pass the name of the managed bean method in <i>actionListener</i> attribute of UI Component.
ActionListener	Implement ActionListener interface and pass the implementation class name to <i>actionListener</i> attribute of UI Component.

Method Binding

Define a method

```
public void updateData(ActionEvent e){
    data="Hello World";
}
```

Use above method

```
<h:commandButton id="submitButton"
    value="Submit" action="#{userData.showResult}"
    actionListener="#{userData.updateData}" />
</h:commandButton>
```

ActionListener

Implement ActionListener

```
public class UserActionListener implements ActionListener{
    @Override
    public void processAction(ActionEvent arg0)
        throws AbortProcessingException {
        //access userData bean directly
        UserData userData = (UserData) FacesContext.getCurrentInstance().
            getExternalContext().getSessionMap().get("userData");
        userData.setData("Hello World");
    }
}
```

Use listener method

```
<h:commandButton id="submitButton1"
    value="Submit" action="#{userData.showResult}" >
    <f:actionListener type="com.tutorialspoint.test.UserActionListener" />
</h:commandButton>
```

Sample Application

Let us create a test JSF application to test the actionListener in JSF.

Step	Description
------	-------------

1	Create a project with a name <i>helloworld</i> under a package <i>com.tutorialspoint.test</i> as explained in the <i>JSF - First Application</i> chapter.
2	Modify <i>UserData.java</i> file as explained below.
3	Create <i>UserActionListener.java</i> file under a package <i>com.tutorialspoint.test</i> . Modify it as explained below
4	Modify <i>home.xhtml</i> as explained below. Keep rest of the files unchanged.
5	Modify <i>result.xhtml</i> as explained below. Keep rest of the files unchanged.
6	Compile and run the application to make sure business logic is working as per the requirements.
7	Finally, build the application in the form of war file and deploy it in Apache Tomcat Webserver.
8	Launch your web application using appropriate URL as explained below in the last step.

UserData.java

```
package com.tutorialspoint.test;

import java.io.Serializable;
import java.util.LinkedHashMap;
import java.util.Map;

import javax.faces.bean.ManagedBean;
import javax.faces.bean.SessionScoped;
import javax.faces.event.ValueChangeEvent;

@ManagedBean(name = "userData", eager = true)
@SessionScoped
public class UserData implements Serializable {

    private static final long serialVersionUID = 1L;

    private static Map<String,String> countryMap;
    private String data = "sample data";

    public String showResult(){
        return "result";
    }

    public void updateData(ActionEvent e){
        data="Hello World";
    }

    public String getData() {
        return data;
    }

    public void setData(String data) {
        this.data = data;
    }
}
```

UserActionListener.java

```
package com.tutorialspoint.test;

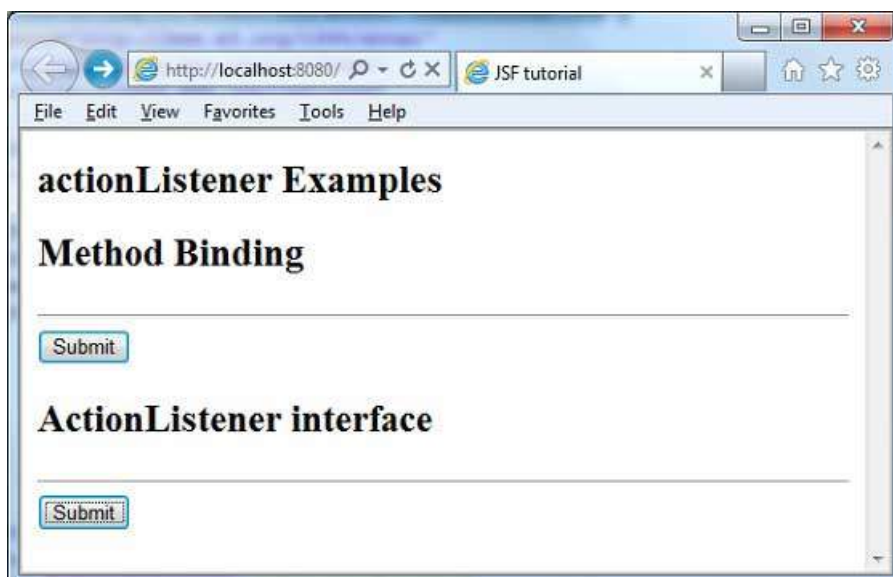
import javax.faces.context.FacesContext;
import javax.faces.event.AbortProcessingException;
import javax.faces.event.ActionEvent;
import javax.faces.event.ActionListener;

public class UserActionListener implements ActionListener{
    @Override
    public void processAction(ActionEvent arg0)
        throws AbortProcessingException {
        //access userData bean directly
        UserData userData = (UserData) FacesContext.getCurrentInstance().
            getExternalContext().getSessionMap().get("userData");
        userData.setData("Hello World");
    }
}
```

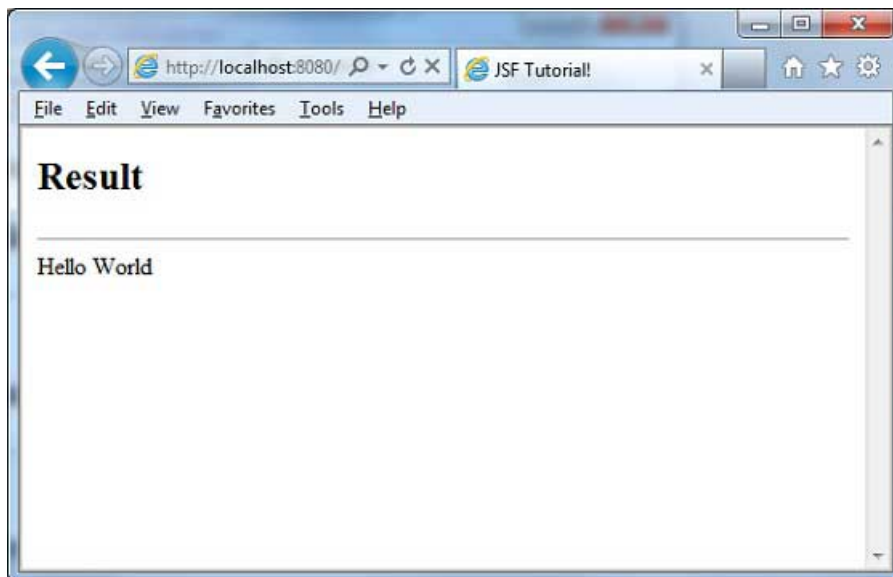
```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://java.sun.com/jsf/html"
      xmlns:f="http://java.sun.com/jsf/core">
  <h:head>
    <title>JSF tutorial</title>
  </h:head>
  <h:body>
    <h2>actionListener Examples</h2>
    <h:form>
      <h2>Method Binding</h2>
      <hr/>
      <h:commandButton id="submitButton"
        value="Submit" action="#{userData.showResult}"
        actionListener="#{userData.updateData}" />
    </h:commandButton>
    <h2>ActionListener interface</h2>
    <hr/>
    <h:commandButton id="submitButton1"
      value="Submit" action="#{userData.showResult}" >
      <f:actionListener
        type="com.tutorialspoint.test.UserActionListener" />
    </h:commandButton>
    </h:form>
  </h:body>
</html>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:f="http://java.sun.com/jsf/core"
      xmlns:h="http://java.sun.com/jsf/html">
  <h:head>
    <title>JSF Tutorial!</title>
  </h:head>
  <h:body>
    <h2>Result</h2>
    <hr />
    #{userData.data}
  </h:body>
</html>
```

Once you are ready with all the changes done, let us compile and run the application as we did in JSF - First Application chapter. If everything is fine with your application, this will produce following result:



Click on any submit button. You will see the following result.



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