

Free JSF2.0 Project1

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Concepts

- Life Cycle Phases
- Managed Bean
- Navigation Rule
- Scope

Maven Coordinates

```
<dependencies>
  <dependency>
    <groupId>com.sun.faces</groupId>
    <artifactId>jsf-api</artifactId>
    <version>2.2.5</version>
  </dependency>
  <dependency>
    <groupId>com.sun.faces</groupId>
    <artifactId>jsf-impl</artifactId>
    <version>2.2.5</version>
  </dependency>
</dependencies>
```

Web.xml(optional)

```
<servlet>  
    <servlet-name>Faces Servlet</servlet-name>  
    <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>  
    <load-on-startup>1</load-on-startup>  
</servlet>  
  
<servlet-mapping>  
    <servlet-name>Faces Servlet</servlet-name>  
    <url-pattern>/faces/*</url-pattern>  
</servlet-mapping>
```

SamplePage.xhtml

```
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:f="http://xmlns.jcp.org/jsf/core"
      xmlns:h="http://xmlns.jcp.org/jsf/html">

  <h:head>
    <title>Sample JSF 2.0 Page</title>
  </h:head>
  <h:body>
    <h1>Welcome!</h1>
    <h3>
      <h:outputText value="#{sampleBean.strProperty1}" />
    </h3>
  </h:body>
</html>
```

SampleBean.java

```
@ManagedBean (name="sampleBean")
@RequestScoped
public class SampleBean implements Serializable{

    private String strProperty1;

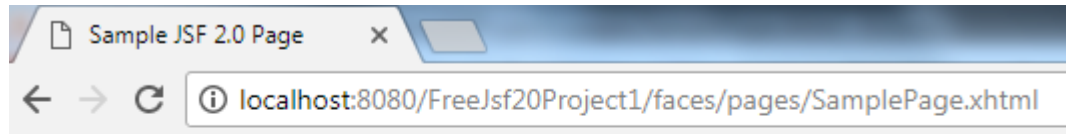
    public SampleBean() {
        strProperty1 = "Hello JSF2.0";
    }

    public String getStrProperty1() {
        return strProperty1;
    }

    public void setStrProperty1(String strProperty1) {
        this.strProperty1 = strProperty1;
    }

}
```

Tomcat run



Welcome!

Hello JSF2.0

SamplePage_2.xhtml

```
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:f="http://xmlns.jcp.org/jsf/core"
      xmlns:h="http://xmlns.jcp.org/jsf/html">

<h:head>
  <title>Sample JSF 2.0 Page_2</title>
</h:head>
<h:body>
  <h:form>
    <h:inputText value="#{sampleBean2.strProperty1}" />
    <h:commandButton action="#{sampleBean2.performAction()}"
      value="Action" />
    <br />
    <h:outputText value="#{sampleBean2.strProperty2}" />
  </h:form>
</h:body>
</html>
```


SampleBean2.java

```
@ManagedBean(name="sampleBean2")
@RequestScoped
public class SampleBean2 implements Serializable{

    private String strProperty1;
    private String strProperty2;

    public SampleBean2() {
    }

    public String getStrProperty1() {
        return strProperty1;
    }

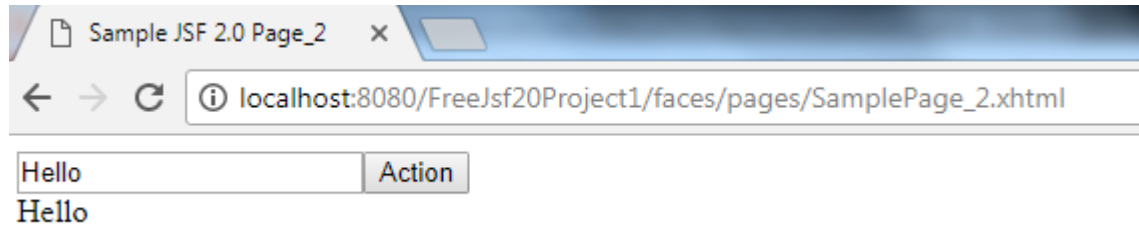
    public void setStrProperty1(String strProperty1) {
        this.strProperty1 = strProperty1;
    }

    public void performAction(){
        strProperty2 = strProperty1;
    }

    public String getStrProperty2() {
        return strProperty2;
    }

}
```

Tomcat run



Sample_Page3.xhtml

```
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:f="http://xmlns.jcp.org/jsf/core"
      xmlns:h="http://xmlns.jcp.org/jsf/html">

<h:head>
  <title>Sample JSF 2.0 Page_3</title>
</h:head>
<h:body>
  <f:metadata>
    <f:viewAction action="#{sampleBean3.onApplyRequestValues()}"
      phase="APPLY_REQUEST_VALUES" />
    <f:viewAction action="#{sampleBean3.onProcessValidations()}"
      phase="PROCESS_VALIDATIONS" />
    <f:viewAction action="#{sampleBean3.onUpdateModelValues()}"
      phase="UPDATE_MODEL_VALUES" />
    <f:viewAction action="#{sampleBean3.onInvokeApplication()}"
      phase="INVOKE_APPLICATION" />
  </f:metadata>
  <h:form>
    <h:inputText value="#{sampleBean3.strProperty1}" />
    <h:commandButton action="#{sampleBean3.performAction()}"
      value="Action" />
    <br />
    <h:outputText value="#{sampleBean3.strProperty2}" />
  </h:form>
</h:body>
</html>
```

SampleBean3.java

```
@ManagedBean(name="sampleBean3")
@RequestScoped
public class SampleBean3 implements Serializable{

    private String strProperty1;
    private String strProperty2;

    public SampleBean3() {
    }

    public String getStrProperty1() {
        return strProperty1;
    }

    public void setStrProperty1(String strProperty1) {
        this.strProperty1 = strProperty1;
    }

    public String getStrProperty2() {
        return strProperty2;
    }

    public void performAction(){
        strProperty2 = strProperty1;
    }
}
```

SampleBean3.java(continued)

```
public void onApplyRequestValues() {
    System.out.println("APPLY_REQUEST_VALUES");
}

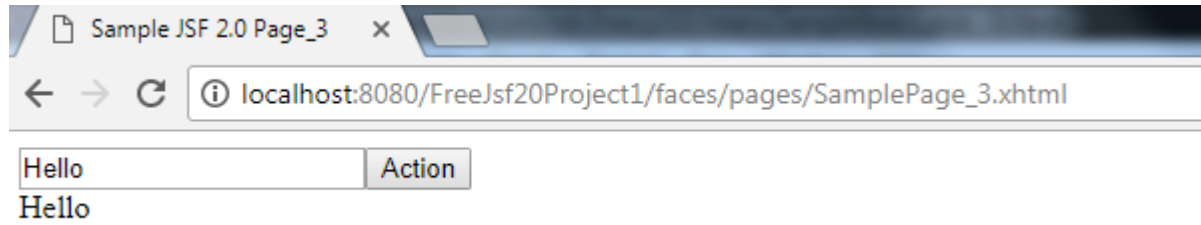
public void onProcessValidations() {
    System.out.println("PROCESS_VALIDATIONS");
}

public void onUpdateModelValues() {
    System.out.println("UPDATE_MODEL_VALUES");
}

public void onInvokeApplication() {
    System.out.println("INVOKE_APPLICATION");
}

}
```

Tomcat run



Console output

```
APPLY_REQUEST_VALUES  
PROCESS_VALIDATIONS  
UPDATE_MODEL_VALUES  
INVOKE_APPLICATION
```

SamplePage_4.xhtml

```
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:f="http://xmlns.jcp.org/jsf/core"
      xmlns:h="http://xmlns.jcp.org/jsf/html">

<h:head>
<title>Sample JSF 2.0 Page_4</title>
</h:head>
<h:body>
  <h:form>
    <h:inputText value="#{sampleBean4.strProperty1}" />
    <h:commandButton action="#{sampleBean4.performAction_()}"
      value="Action" />
  </h:form>
</h:body>
</html>
```


SampleBean4.java

```
@ManagedBean(name="sampleBean4")
@SessionScoped
public class SampleBean4 implements Serializable{

    private String strProperty1;
    private String strProperty2;

    public SampleBean4() {
    }

    public String getStrProperty1() {
        return strProperty1;
    }

    public void setStrProperty1(String strProperty1) {
        this.strProperty1 = strProperty1;
    }

    public String getStrProperty2() {
        return strProperty2;
    }

    public String performAction(){
        strProperty2 = strProperty1;
        return "SamplePage_41";
    }

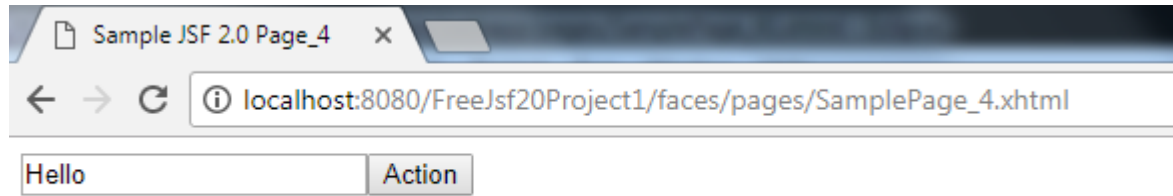
}
```

SamplePage_41.xhtml

```
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:f="http://xmlns.jcp.org/jsf/core"
      xmlns:h="http://xmlns.jcp.org/jsf/html">

<h:head>
  <title>Sample JSF 2.0 Page_41</title>
</h:head>
<h:body>
  <h:form>
    <h:outputText value="#{sampleBean4.strProperty2}" />
  </h:form>
</h:body>
</html>
```

Tomcat run



Tomcat run(continued)

