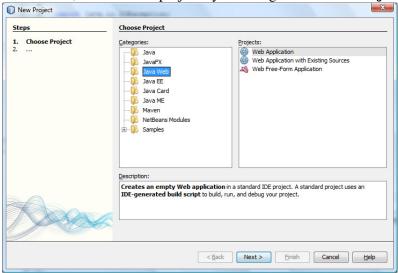
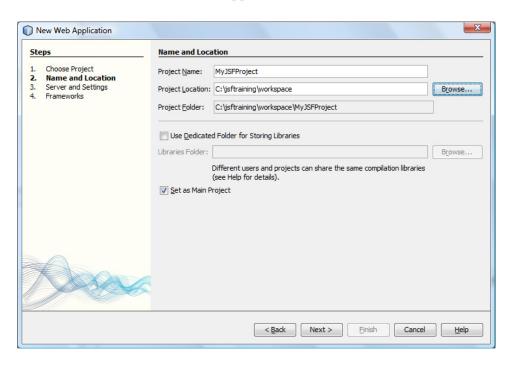
# Lab 8: basic JSF

In Netbeans, create a new project by selecting File-> New Project



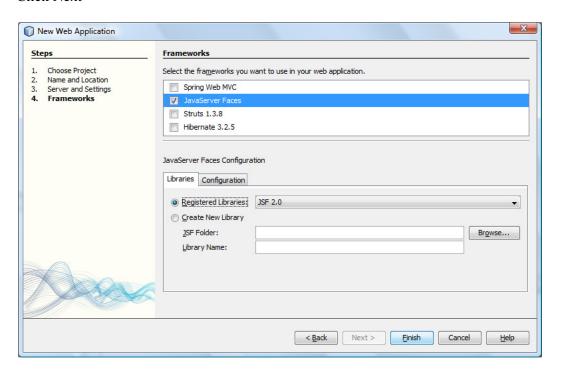
Choose Java Web and then Web Application. Click Next.



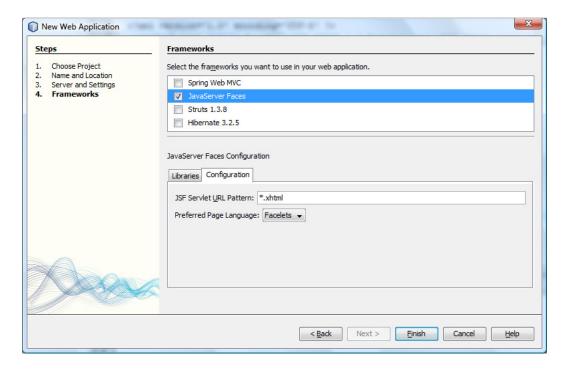
Give the project the name MyJSFProject. Click Next.

New Web Application		X
Steps	Server and Settings	
Choose Project     Name and Location	Add to Enterprise Application: (None>	-
Server and Settings     Frameworks	Server: Apache Tomcat 6.0.26   ✓ Add  ✓ Use dedicated library folder for server JAR files	
	Java EE Version: Java EE 5 ▼	
	Context Path: /MyJSFProject	
	< Back Next > Finish Cancel Hel	р

# Click Next

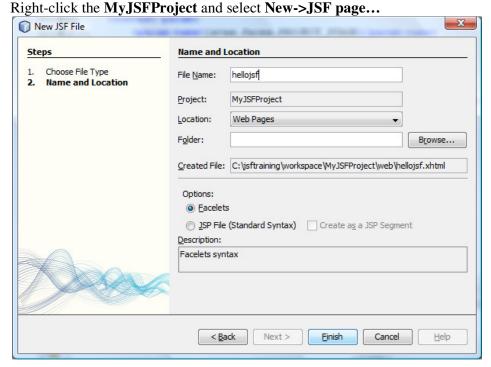


Select JavaServer Faces, and select JSF 2.0.

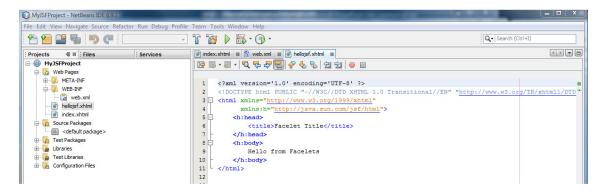


Select the Configuration tab, and enter the JSF Servlet URL Pattern \*.xhtml. Click Finish.

The project MyJSFProject is now created in Netbeans.

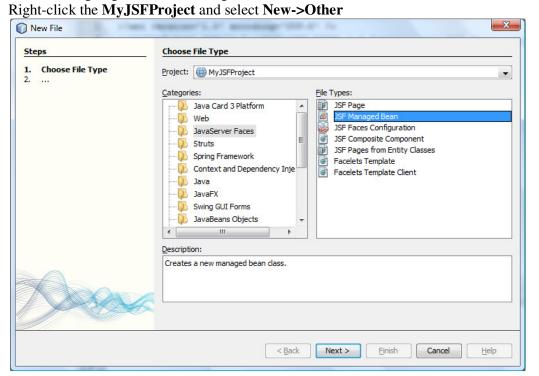


Name the file **hellojsf** and click **finish**.

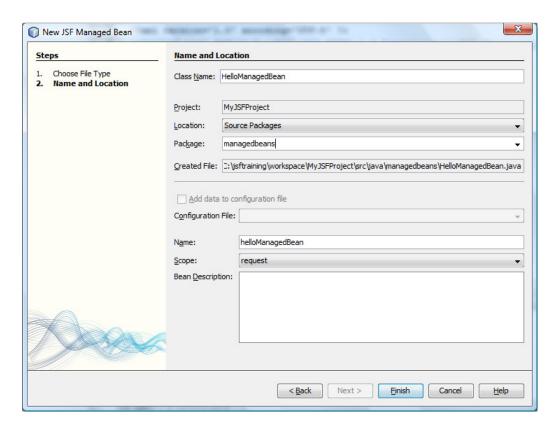


The file **hellojsf.xhtml** is now created.

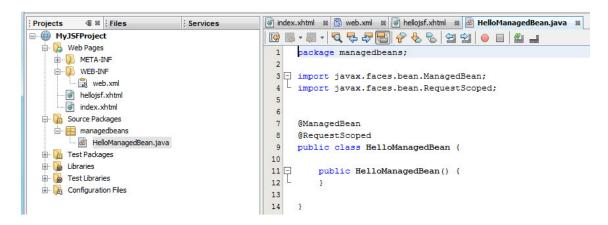
Now we are going to create a managed bean.



Choose JavaServer Faces and then JSF Managed Beans. Click Next.



Name the managedbean **HelloManagedBean** and name the package **managedbeans**. Click **Finish**.



A default **HelloManagedBean** is created with the corresponding annotations.

# Change the **HelloManagedBean:**

```
package managedbeans;
import javax.faces.bean.ManagedBean;
import javax.faces.bean.RequestScoped;

@ManagedBean
@RequestScoped
public class HelloManagedBean {
    private String name;

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String sayHello() {
        return null;
    }
}
```

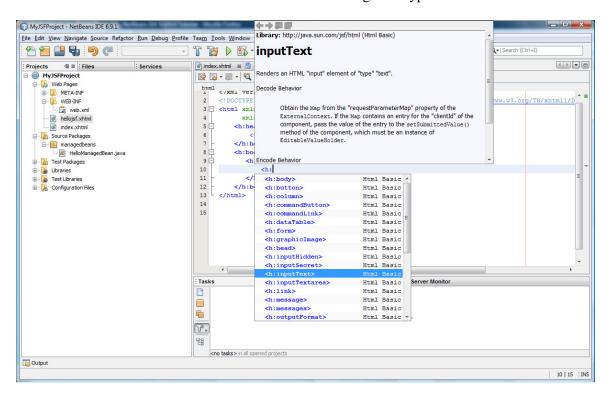
}

Now we are going to edit hellojsf.xhtml.

Add a JSF form (**<h:form>**) in the body of the xhtml page.

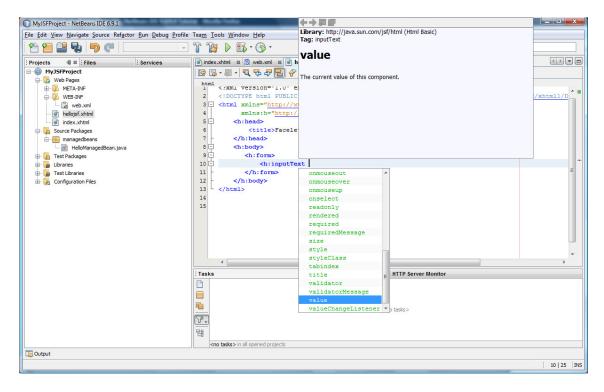
```
index.xhtml № 🖔 web.xml № 🕝 hellojsf.xhtml № 🚳 HelloManagedBean.java
</xmt version='1.0' encoding='UIF-0' !>
 2
      <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional</pre>
  3 - <html xmlns="http://www.w3.org/1999/xhtml"
  4
           xmlns:h="http://java.sun.com/jsf/html">
  5 🗀
         <h:head>
  6
             <title>Facelet Title</title>
  7
         </h:head>
 8
         <h:body>
            <h:form>
 9
 10
            </h:form>
 11
 12
         </h:body>
 13
     </html>
 14
 15
```

Place the cursor between the **<h:form>** and **</h:form>** tags and type **<h:** 



## Double-click <h:inputText>

#### Now type a space:



## Double-click value

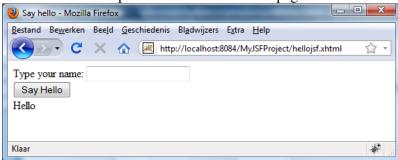
Finish the inputText as given above.

```
1
     <?xml version='1.0' encoding='UTF-8' ?>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xi
2
3 - <html xmlns="http://www.w3.org/1999/xhtml"
          xmlns:h="http://java.sun.com/jsf/html">
4
5 🗀
         <h:head>
            <title>Say hello</title>
6
        </h:head>
 7
8 😑
        <h:body>
9 🗀
           <h:form>
10
               Type your name:
               <h:inputText value="#{helloManagedBean.name}" />
11
12
13
               <h:commandButton value="Say Hello" action="#{helloManagedBean.sayHello}"/>
14
15
                <h:outputText value="#{helloManagedBean.name}" />
16
            </h:form>
17
         </h:body>
     </html>
```

Finish the JSF page as given above.

Now we want to test our JSF application. Richt-click hellojsf.xhtml and select Run File.

A browser is now opened that shows the web page:



Test if your application works.

#### **Exercise: Calculator**

Create a new JSF JSP page that allows you to calculate as follows:

