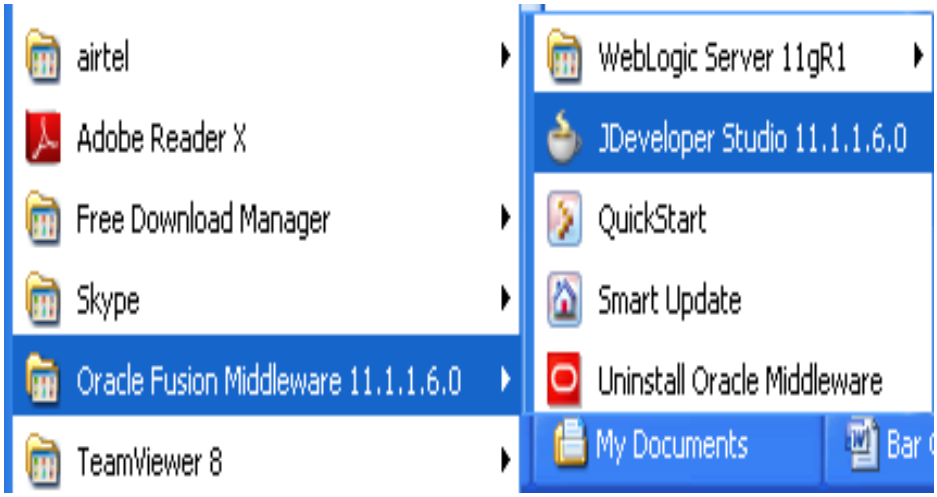
Generate Weather ForeCast Report Using Third party wsdl in ADF

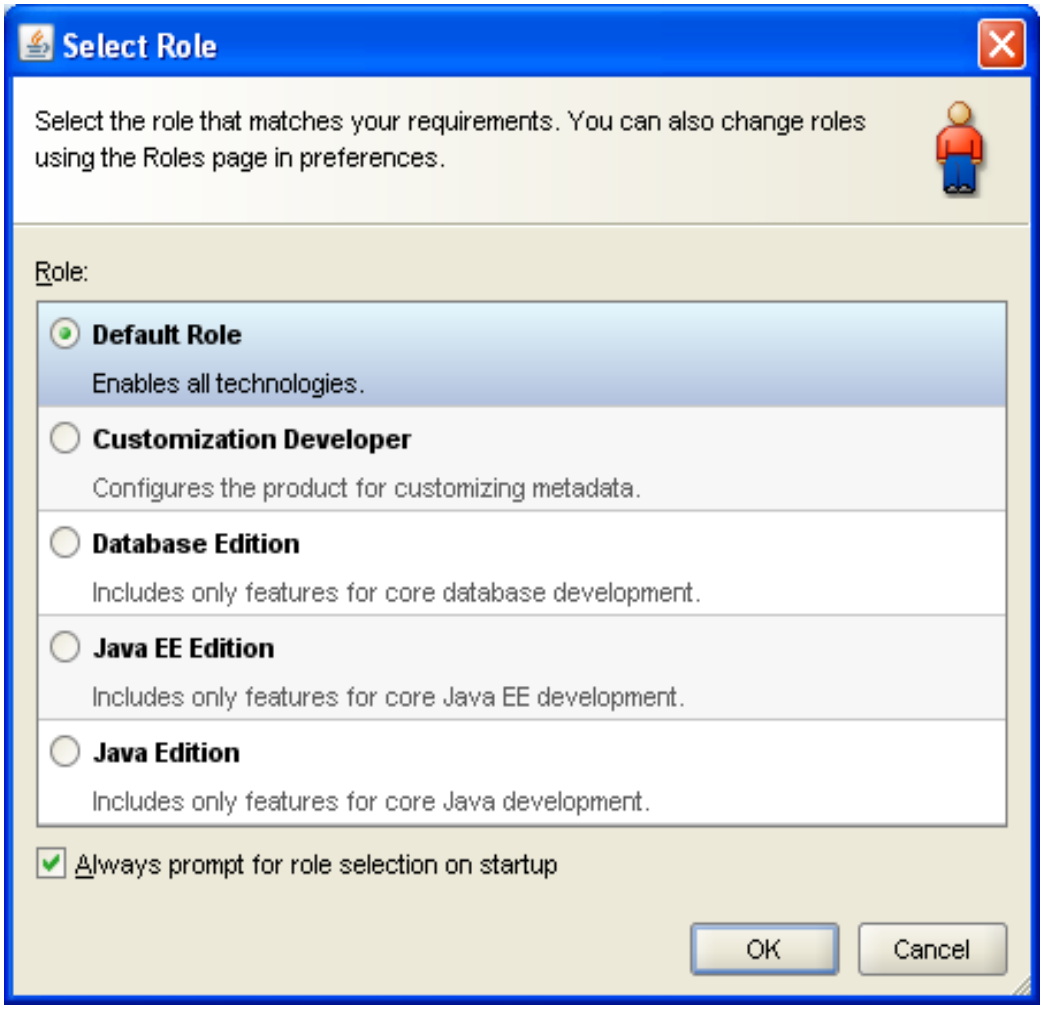
In this tutorial we are going to see how to generate weather report using third party wsdl

Wsdl Path: http://wsf.cdyne.com/WeatherWS/Weather.asmx?wsdl

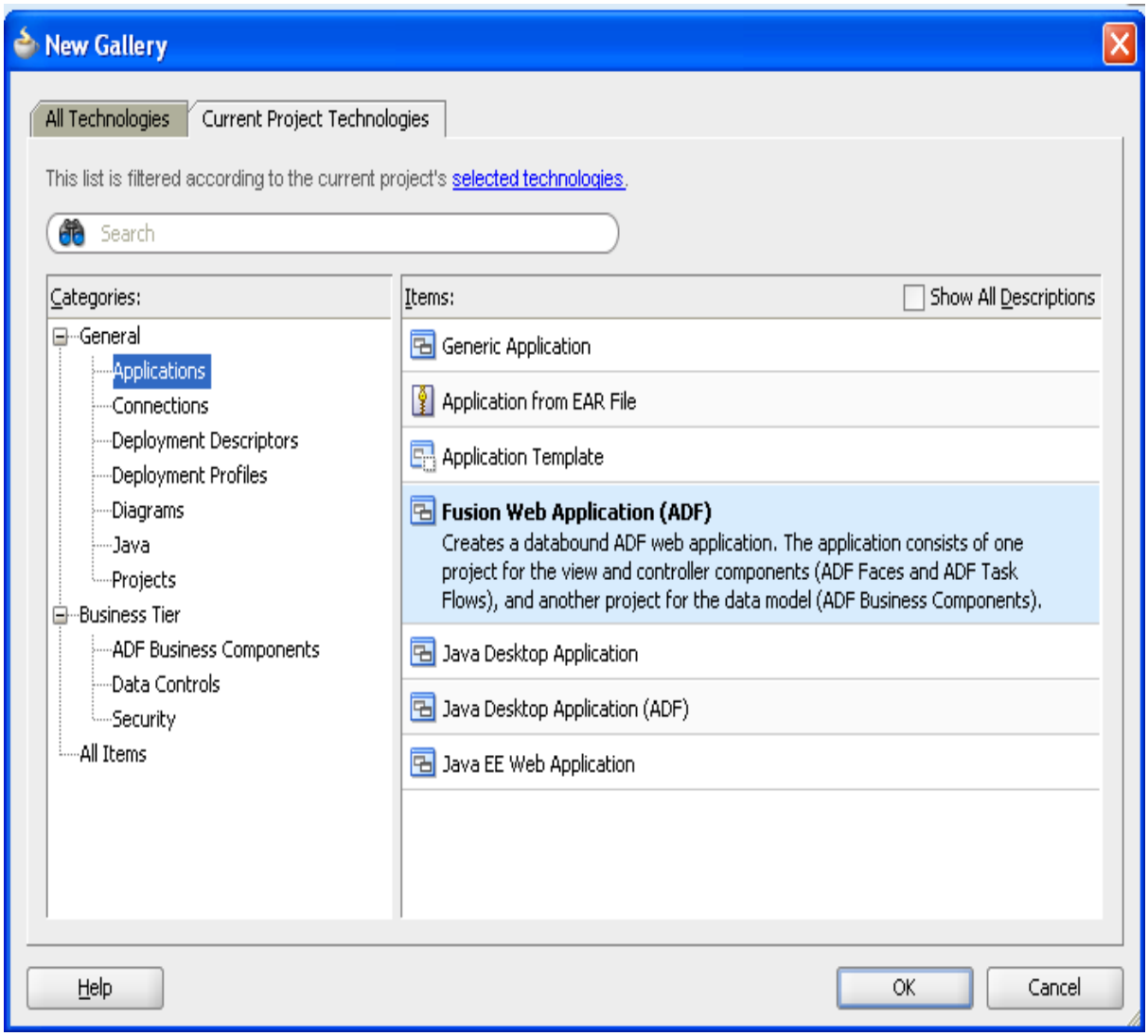
1.Start JDeveloper by selecting **Start > Programs > Oracle Fusion Middleware 11.1.6.0.0 >JDeveloper Studio 11.1.1.6.0.**



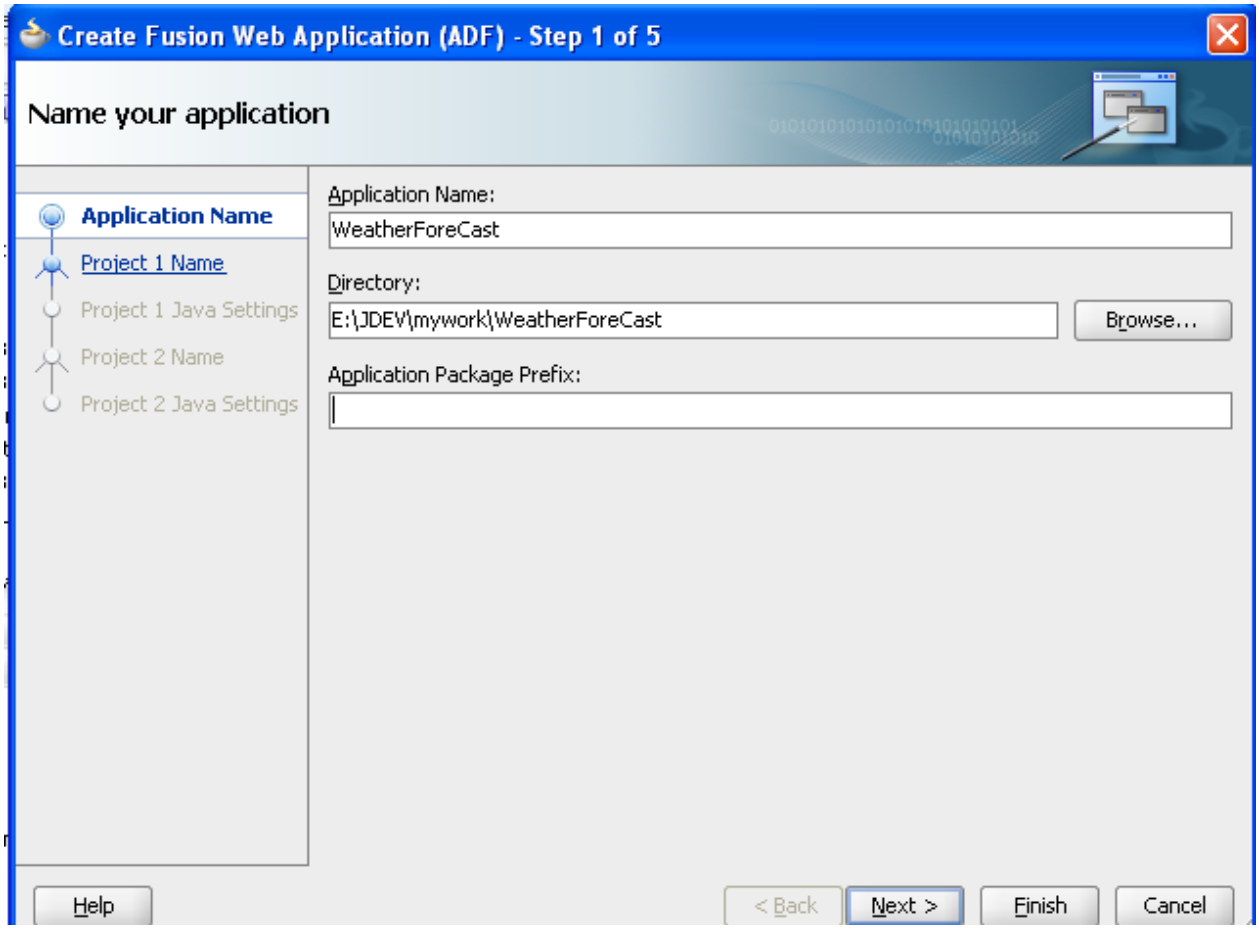
2.In the Select Role dialog, choose “**Default Role**” and click “**OK**”.



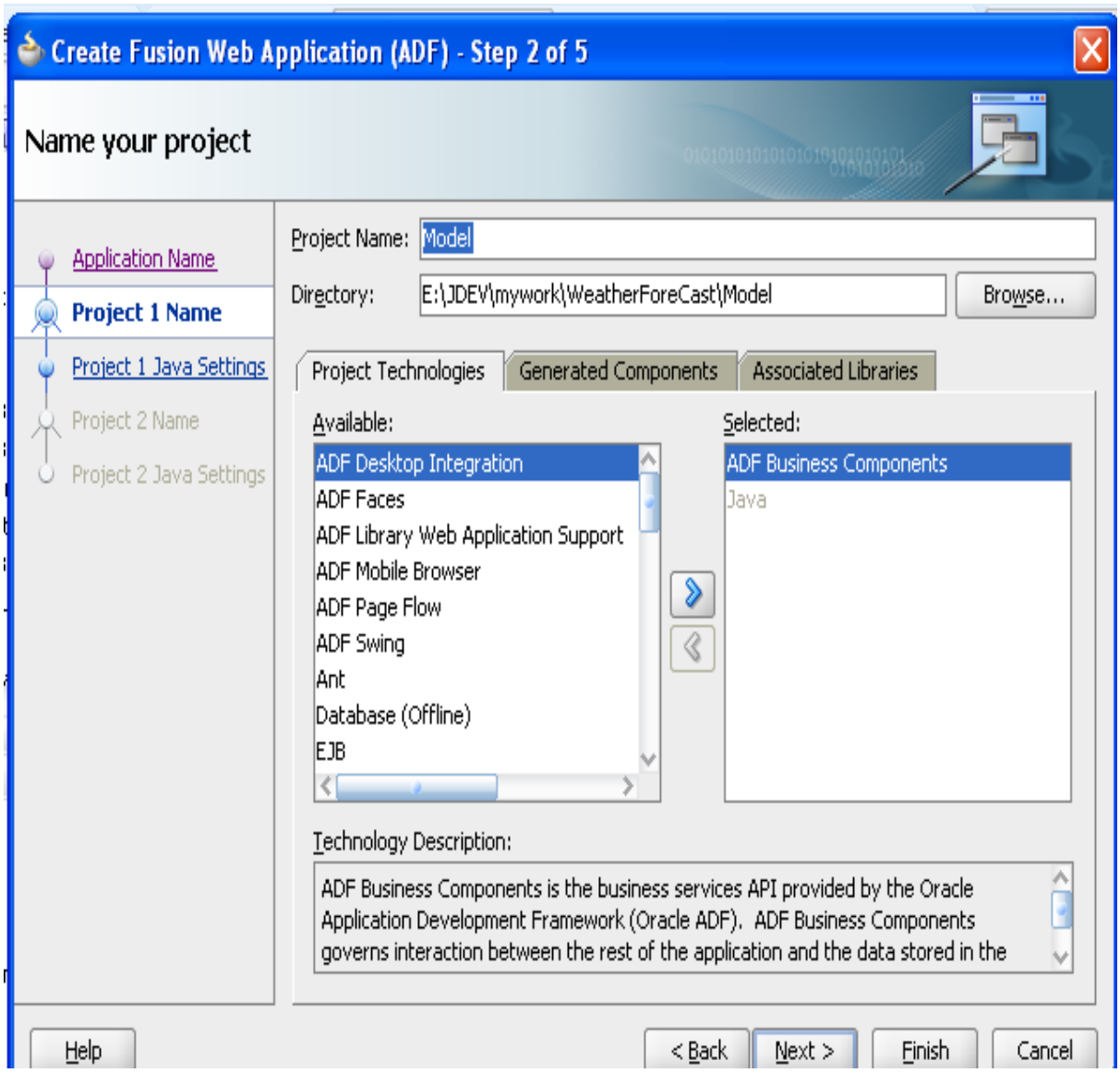
3.File > New then selecting the Applications menu item in the left side of the new dialog, select the **Fusion Web Application (ADF)** type and click "**OK**".



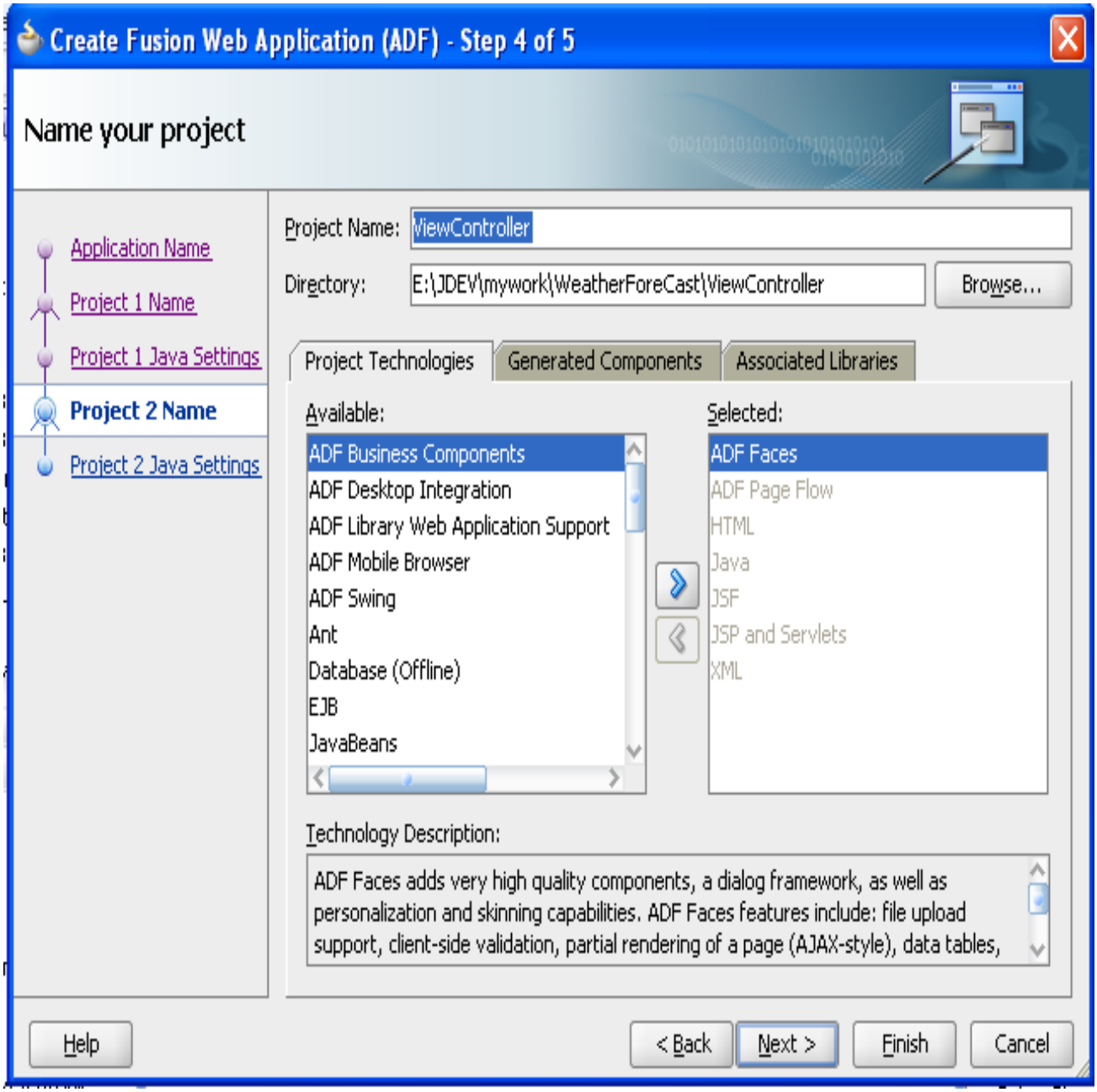
4.Create the application name as WeatherForeCast click “**Next**”.



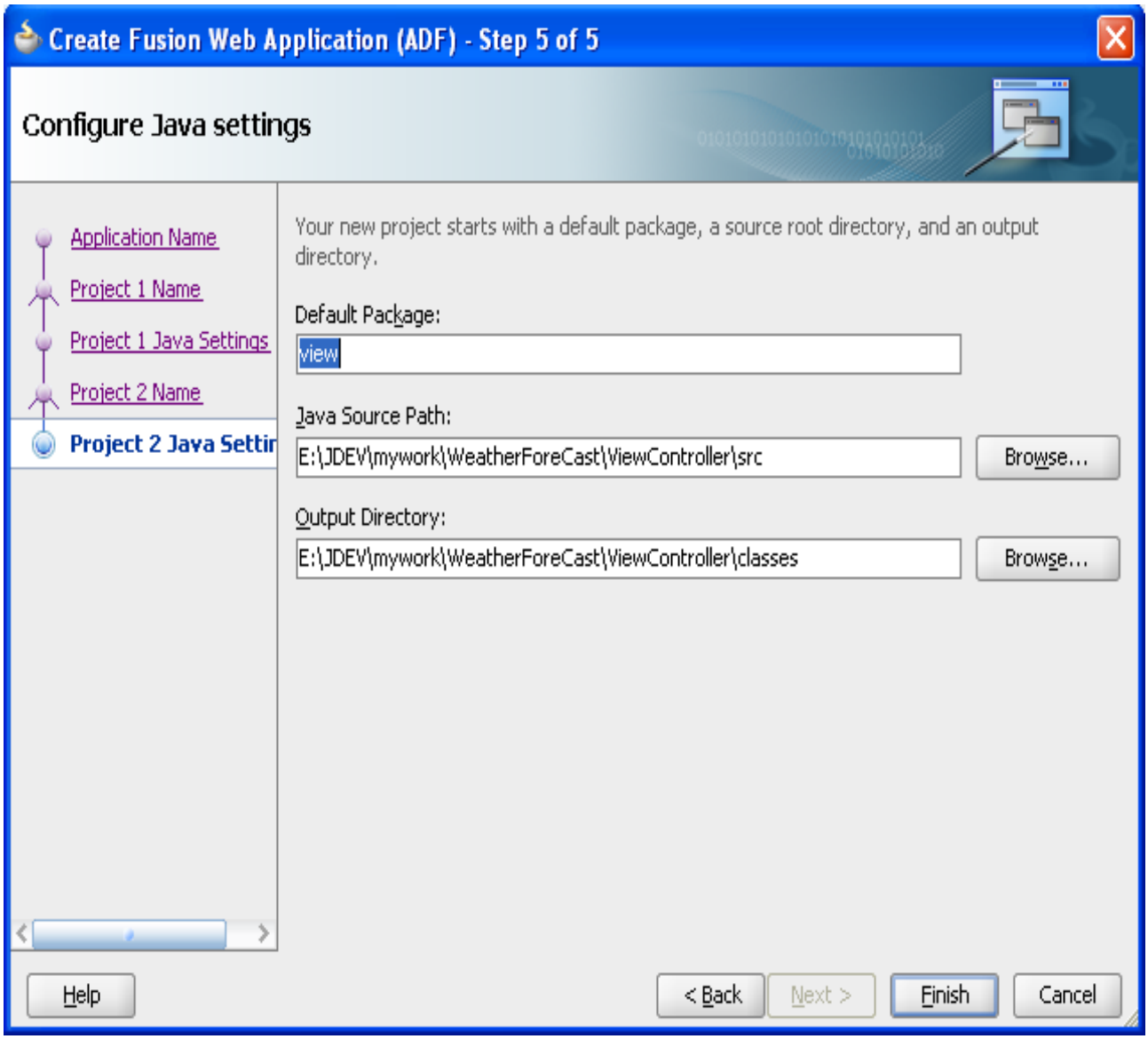
5.It will create model project click “**Next**”.



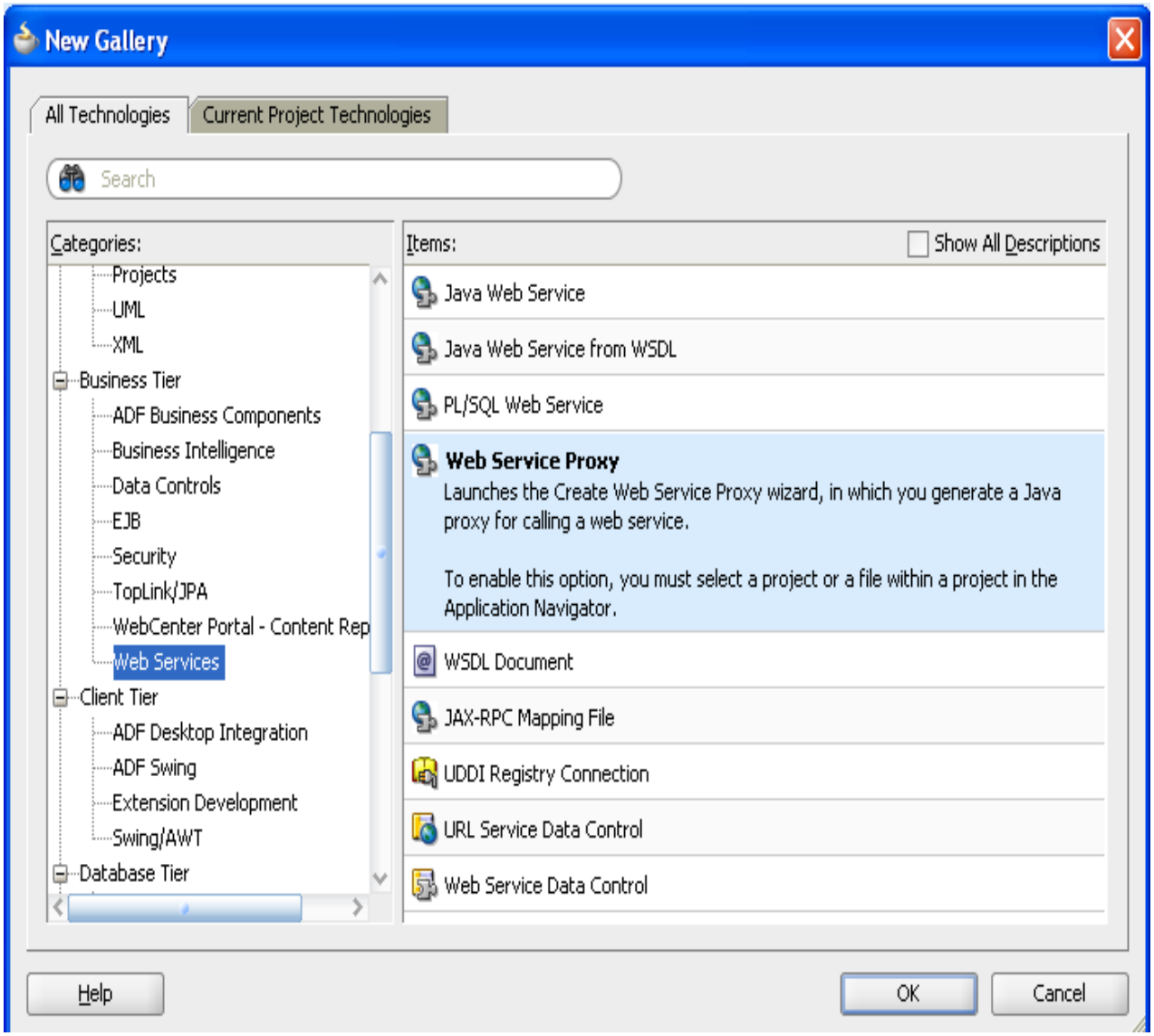
6.It will create the View Controller project.



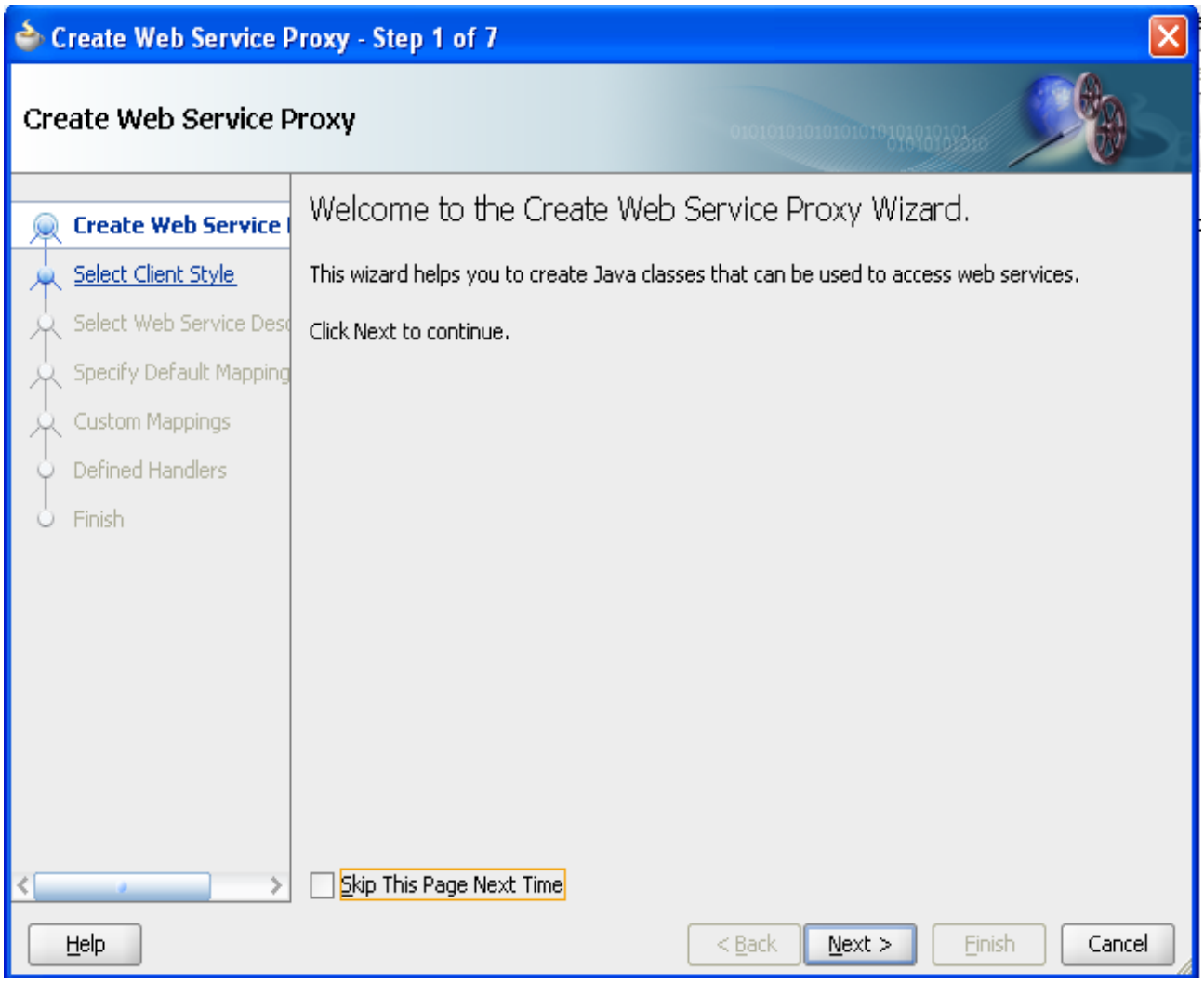
7.It will create javaSettings click “**Next**”.



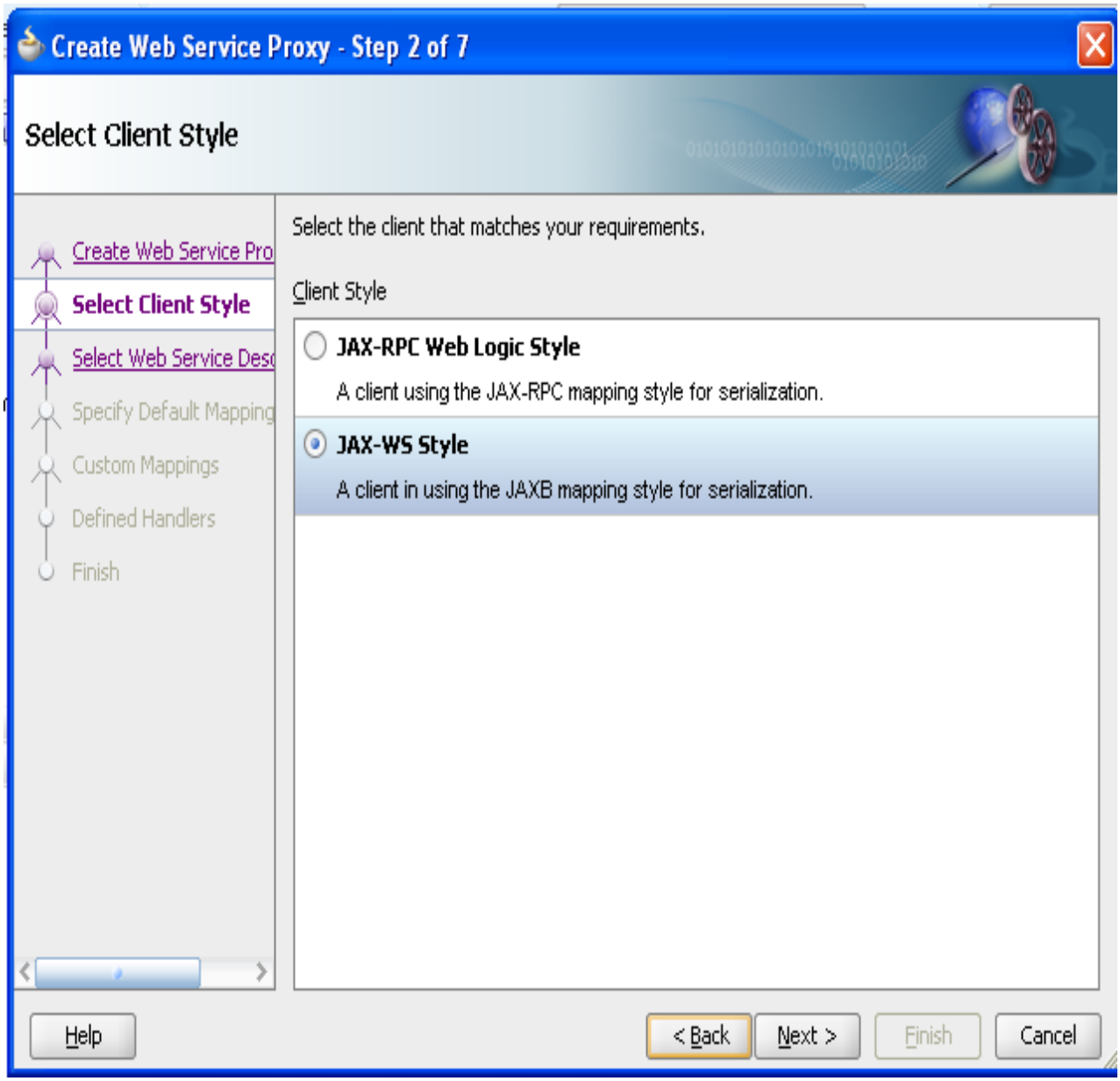
8.Right click the model project select->New Select **WebServices** from the left side and **Web Services Proxy** on the right. Then click "**OK**".



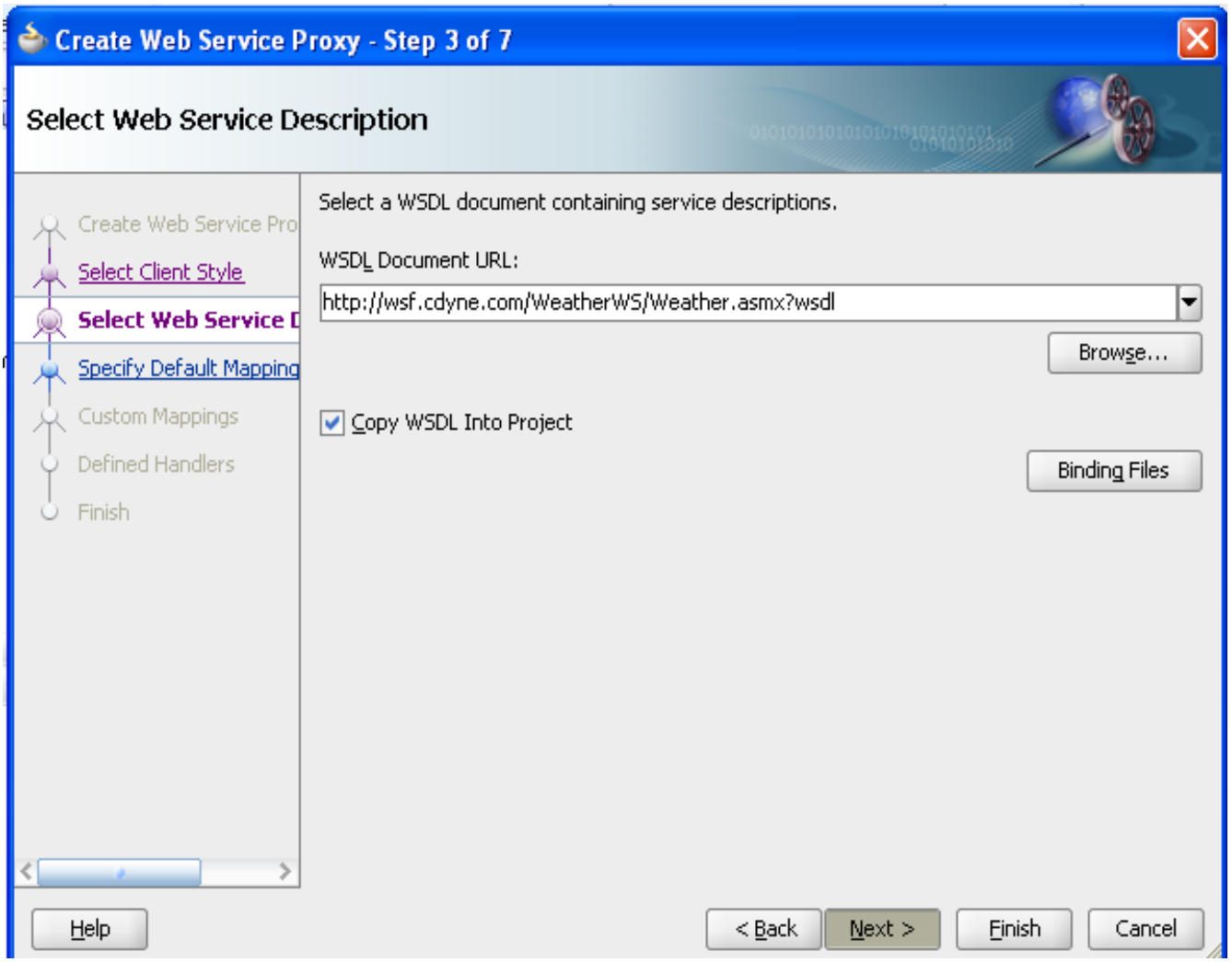
9.Click “Next”.


Create Web Service Proxy - Step 1 of 7
Create Web Service Proxy
Create Web Service
Select Client Style
Select Web Service Desc
Specify Default Mapping
Custom Mappings
Defined Handlers
Finish
Welcome to the Create Web Service Proxy Wizard.
This wizard helps you to create Java classes that can be used to access web services.
Click Next to continue.
Skip This Page Next Time
Help
< Back
Next >
Finish
Cancel

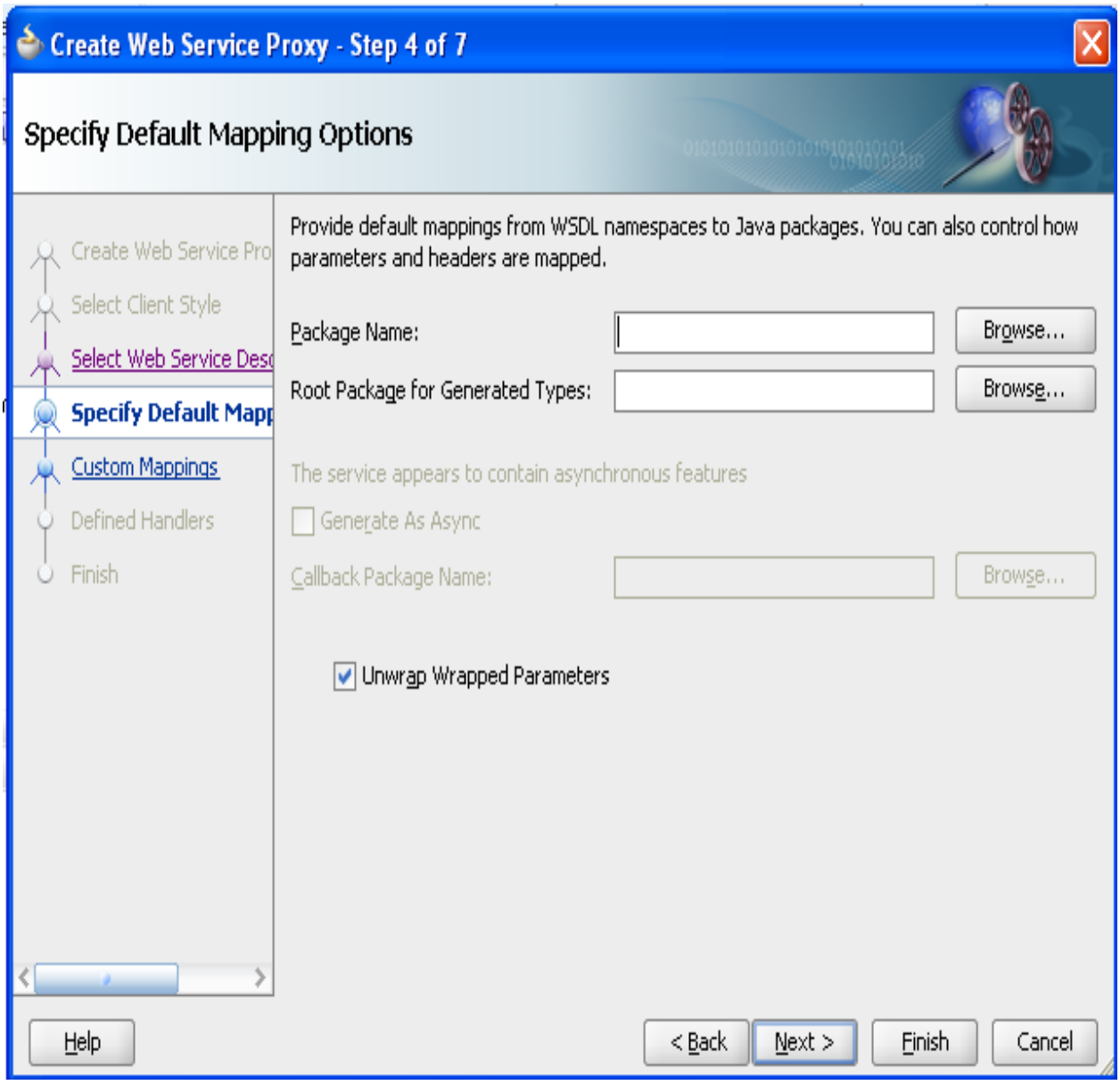
10.Click “Next”.



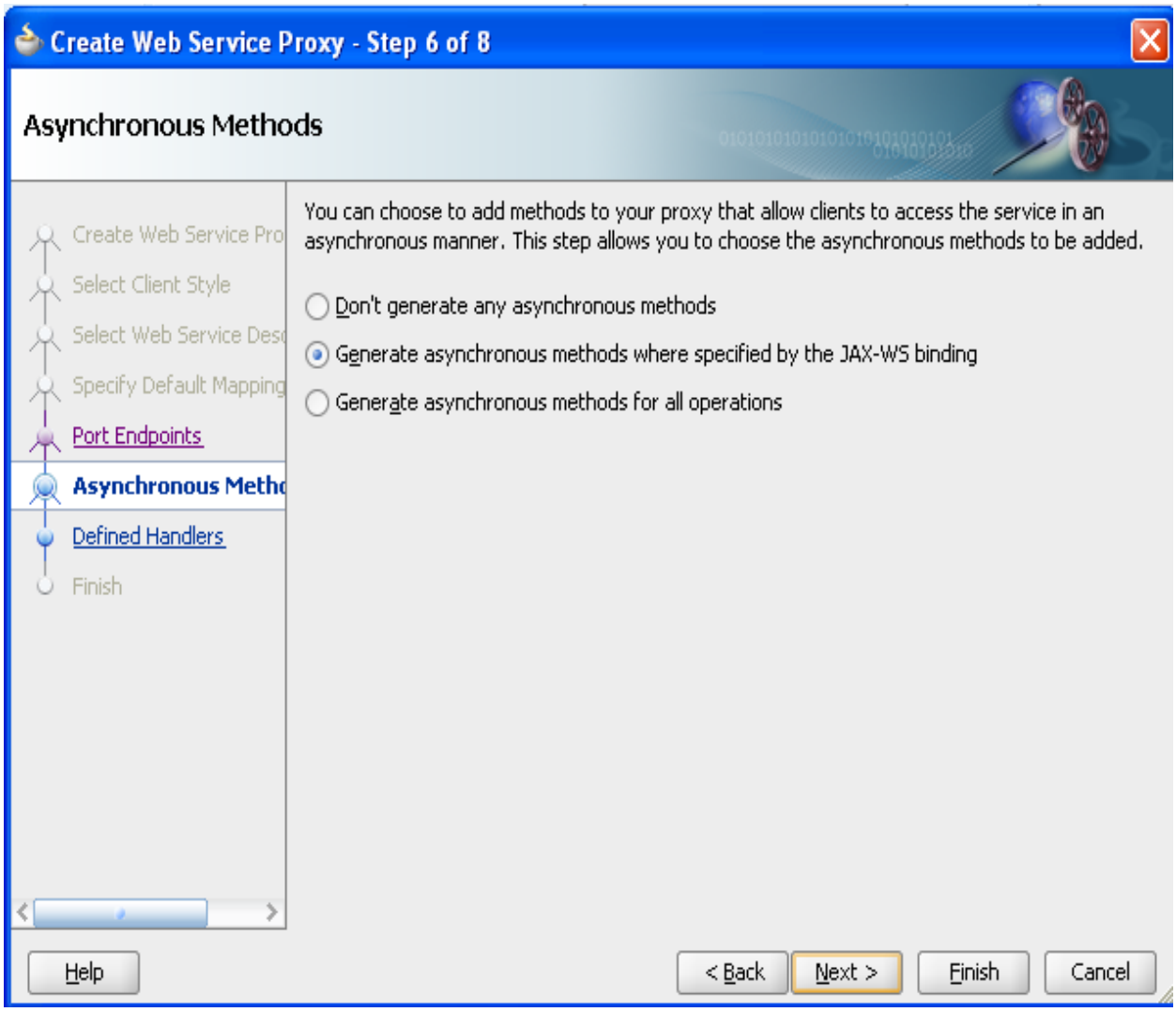
11.Now paste your WDSL url as shown below.



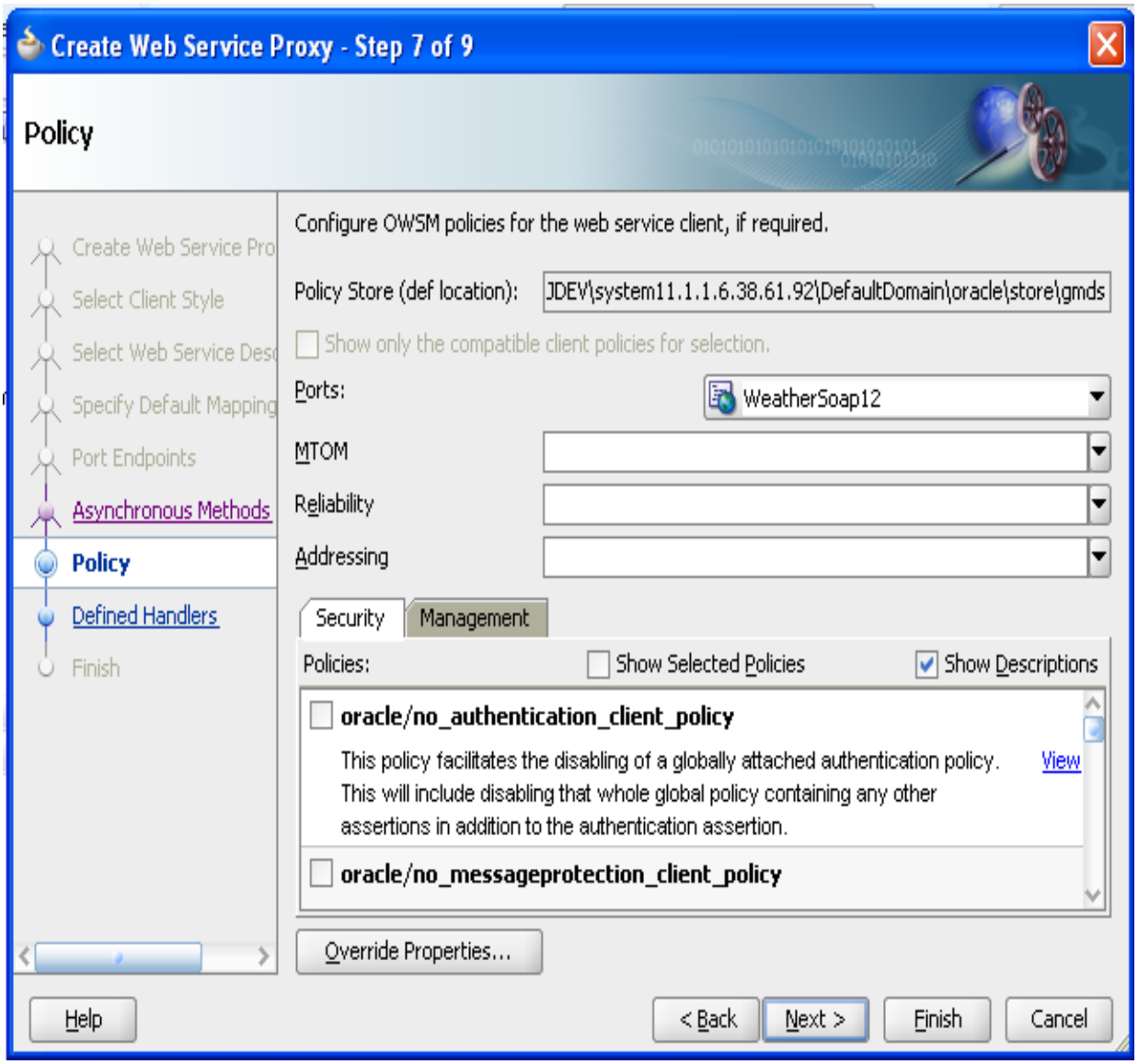
12.Click “Next”.



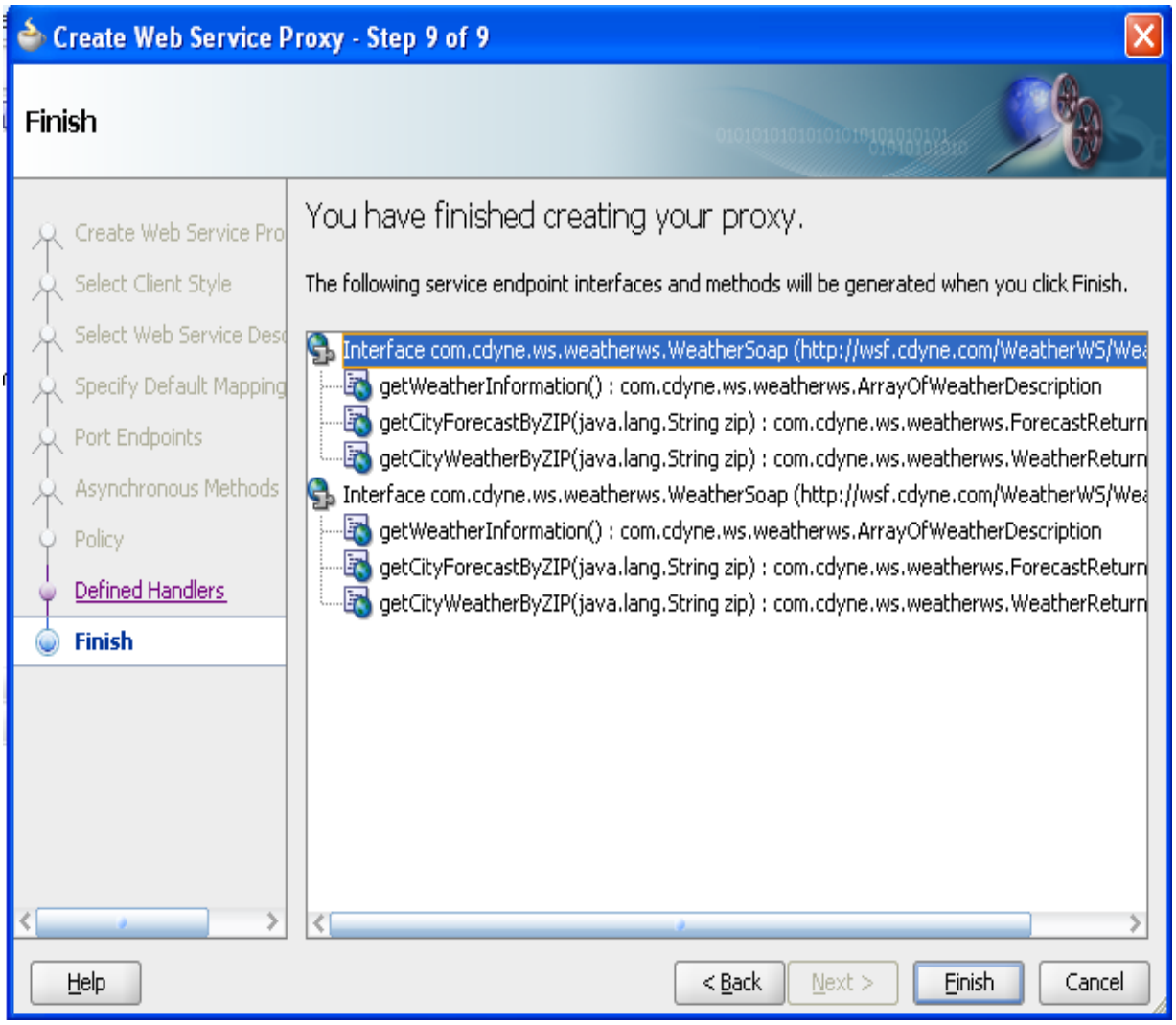
13.Click “Next”.



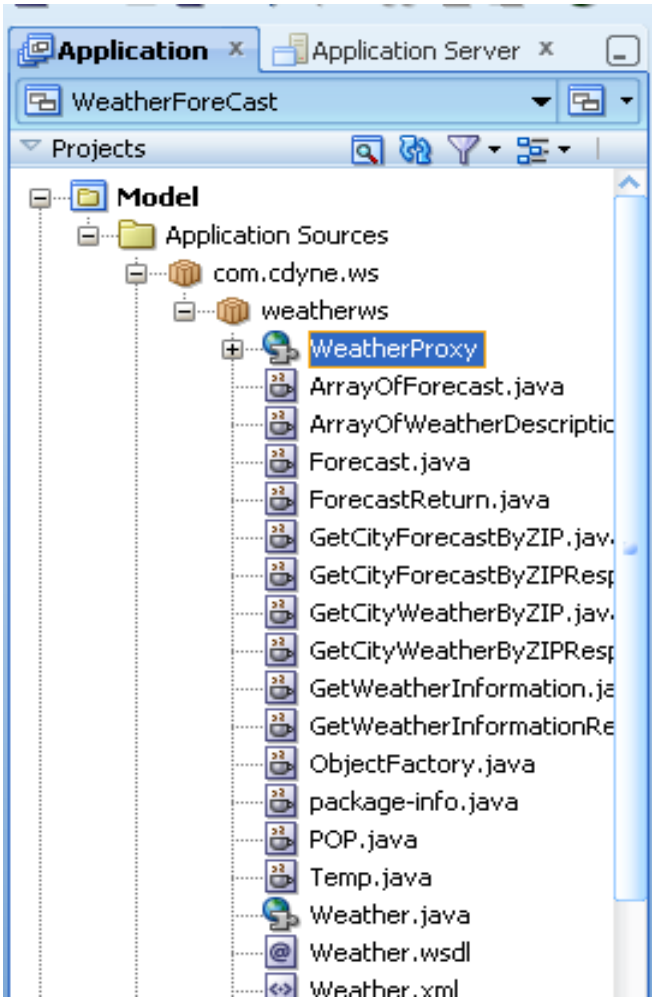
14.Click “Next”.



15.Click “Next”.

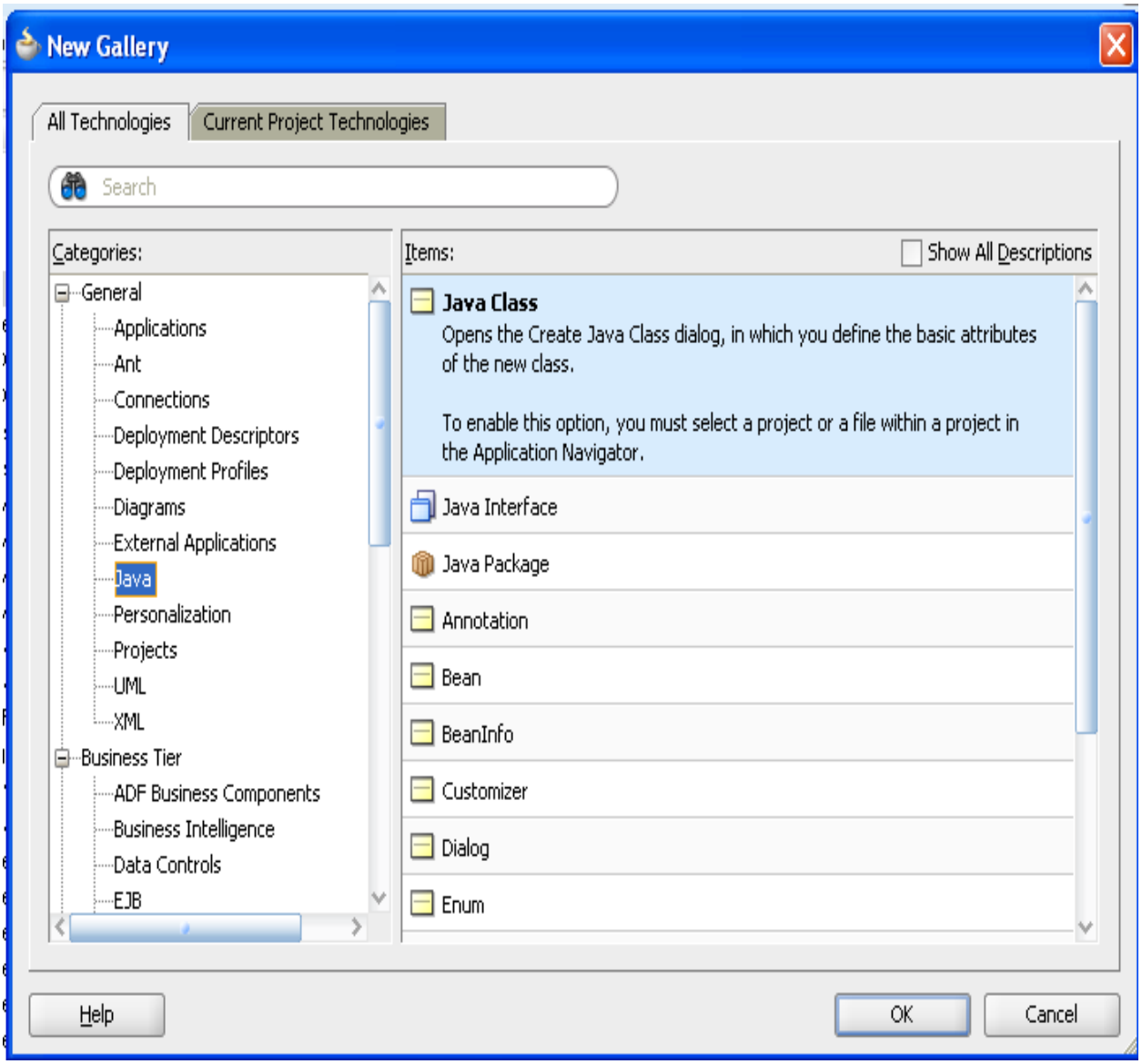


16.Now new Packages are created in your model project as show n below.

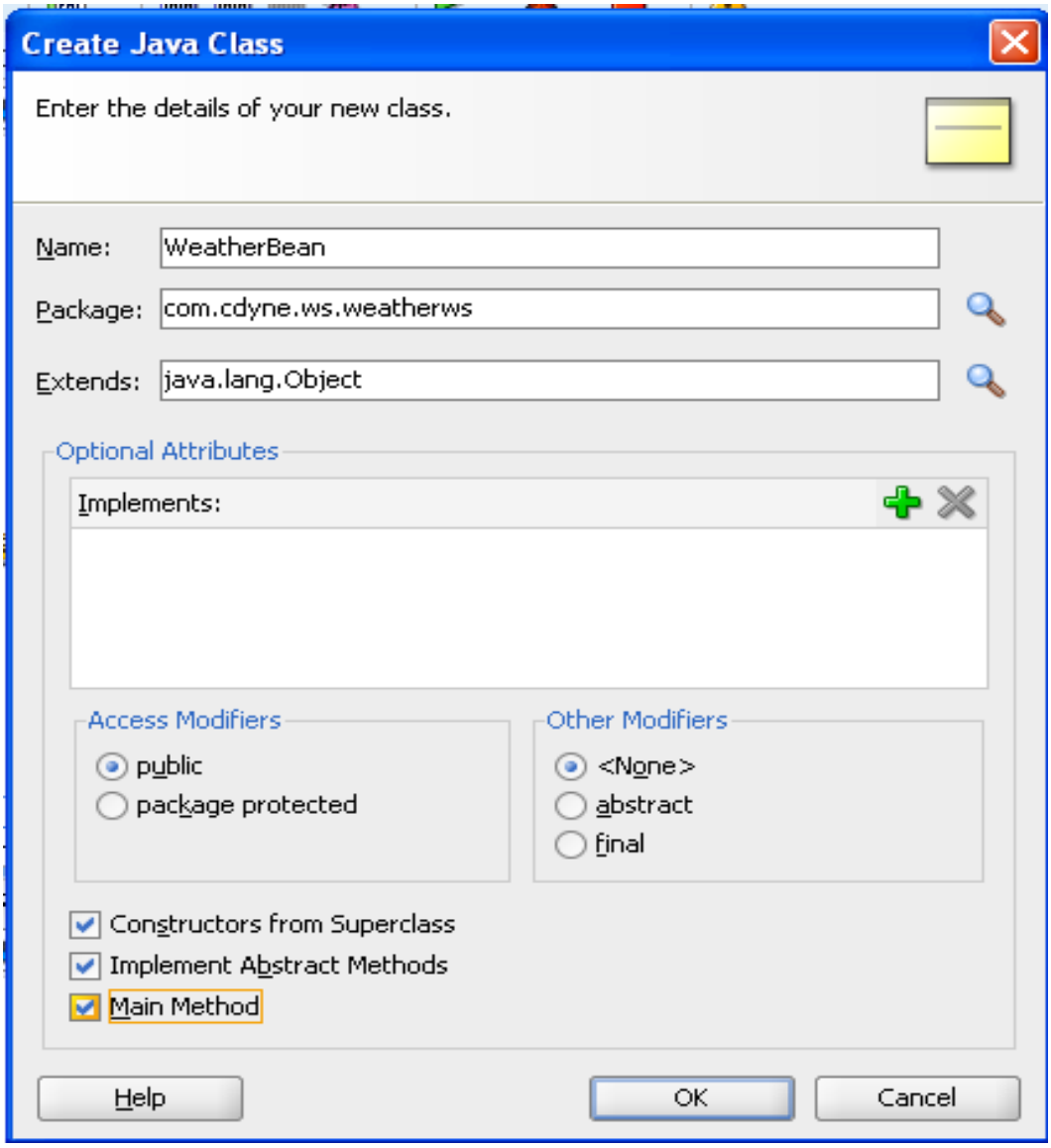


17.Right click the package “weatherws” select->New

Select **Java** from the left side and **Java Class** on the right. Then click “**OK**”.



18.Mention your class name as “WeatherBean”.



19.In WeatherSoapClient.java file in under weatherws package ,we need to introduce following Method.

```
 public static WeatherSoap getObj(){
    weather = new Weather();
    WeatherSoap weatherSoap = weather.getWeatherSoap();
    return weatherSoap;
 }
```

WeatherSoapClient.java Code:

```
package com.cdyne.ws.weatherws;
import javax.xml.ws.WebServiceRef;

public class WeatherSoapClient
{
 @WebServiceRef
 private static Weather weather;

 public static void main(String [] args)
 {
  weather = new Weather();
  WeatherSoap weatherSoap = weather.getWeatherSoap();
 }

 public static WeatherSoap getObj(){
```

```
    weather = new Weather();
    WeatherSoap weatherSoap = weather.getWeatherSoap();
    return weatherSoap;
  }
}
```

20.In WeatherBean.java file to add the following code:

```
   public String getForeCast() {
      List<WeatherBean> list =new ArrayList<WeatherBean>();
      try{
      WeatherSoap ob;
      ob = WeatherSoapClient.getObj();
      String id=getZip();
      if(ob.getCityForecastByZIP(id).isSuccess()){
      System.out.println(ob.getCityForecastByZIP(id).city);
      for(int i=0;i<ob.getCityForecastByZIP(id).forecastResult.getForecast().size();i++){
      WeatherBean obj=new WeatherBean();
      this.city=ob.getCityForecastByZIP(id).city;
this.date=ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).date.toString().substring(0
, 10);
  obj.setCity(ob.getCityForecastByZIP(id).city);
obj.setDate(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).date.toString().substring
(0, 10));
 obj.setDis(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).desciption);

obj.setHigh(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).getTemperatures().getD
aytimeHigh());
```

```
obj.setLow(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).getTemperatures().getMorningLow());

 short id1=ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).getWeatherID();

 for(int j=0;j<ob.getWeatherInformation().weatherDescription.size();j++){

                    if(ob.getWeatherInformation().getWeatherDescription().get(j).getWeatherID()==id1){

                      obj.setImg(ob.getWeatherInformation().getWeatherDescription().get(j).getPictureURL());

          }

    }

            list.add(obj);

             }

             System.out.println("BEFORE LENGTH CALCULATION");

             int n=list.size();

             n=n-1;

             System.out.println("Length "+n);

             setLen(n+"");

             setList1(list);

             return "success";

             }else{

              return "failure";

       }

      }

      catch(Exception e){

         e.printStackTrace();

         return "failure";

      } }
```

In our case ForeCast information and weather information are in different class ,in our case we need to Show forecast details and weather image.

So I match the Weather image for particular forecast using weather id.

WeatherBean.java Code:

```
package com.cdyne.ws.weatherws;

import java.util.ArrayList;

import java.util.List;

public class WeatherBean {

   public WeatherBean() {

      super();

   }

   private String name;

   private String msg;

   private String len;

   private String date;

   private String city;

   private String dis;

   private String high;

   private String low;

   private String img;

   private String zip;

   private List<WeatherBean> list1=null;

   private List<String> list2=new ArrayList<String>();
```

```
public void setName(String name) {
   this.name = name;
}
public String getName() {
   return name;
}
public void setMsg(String msg) {
   this.msg = msg;
}
public String getMsg() {
   return msg;
}
public void setLen(String len) {
   this.len = len;
}
public String getLen() {
   return len;
}
public void setDate(String date) {
   this.date = date;
}
public String getDate() {
   return date;
}
```

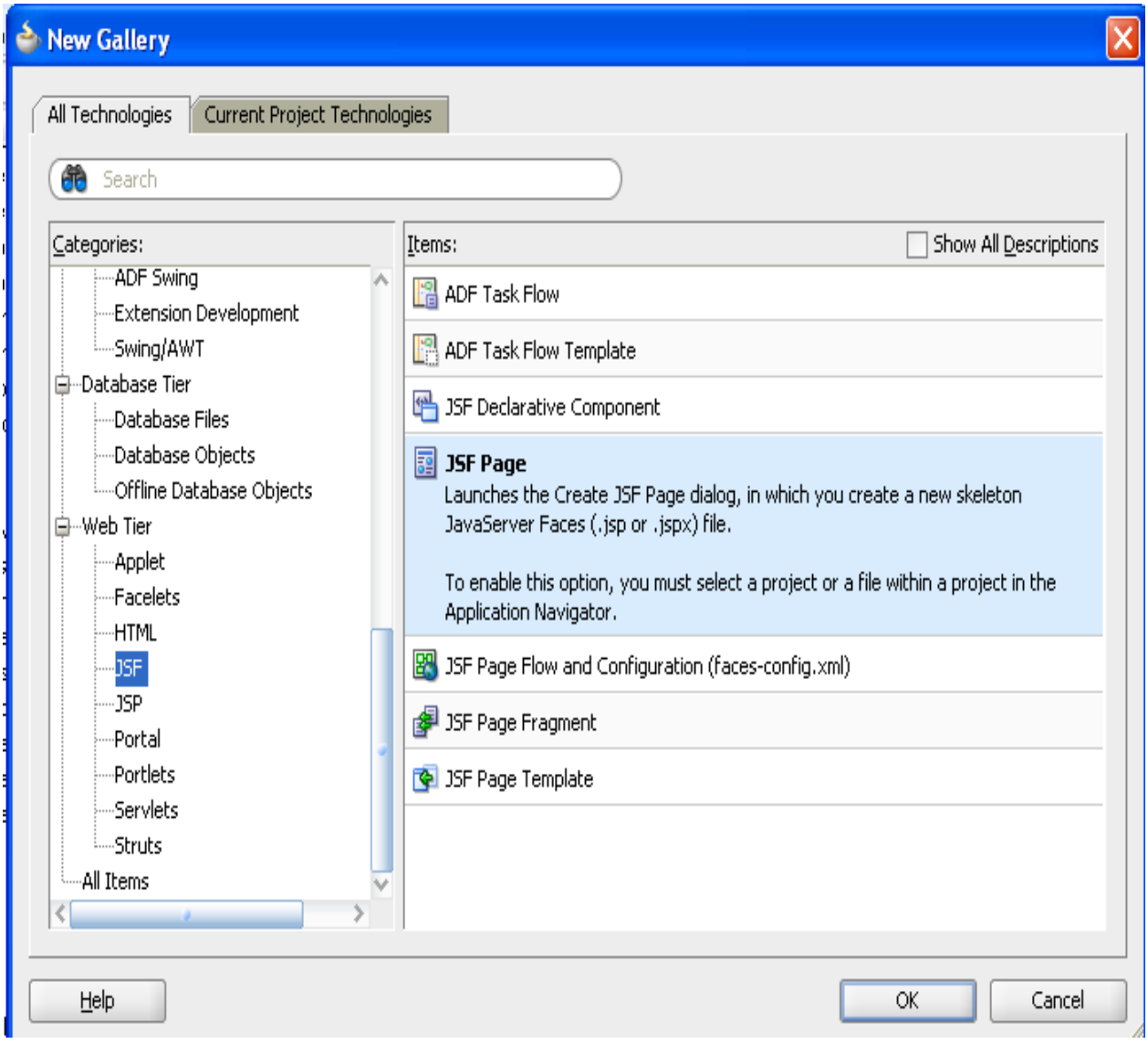
```
public void setCity(String city) {
   this.city = city;
}
public String getCity() {
   return city;
}
public void setDis(String dis) {
   this.dis = dis;
}
public String getDis() {
   return dis;
}
public void setHigh(String high) {
   this.high = high;
}
public String getHigh() {
   return high;
}
public void setLow(String low) {
   this.low = low;
}
public String getLow() {
   return low;
}
```

```
public void setImg(String img) {
   this.img = img;
}
public String getImg() {
   return img;
}
public void setList1(List<WeatherBean> list1) {
   this.list1 = list1;
}
public List<WeatherBean> getList1() {
   return list1;
}
public void setList2(List<String> list2) {
   this.list2 = list2;
}
public List<String> getList2() {
   return list2;
}
public String getForeCast() {
   List<WeatherBean> list =new ArrayList<WeatherBean>();
   try{
   WeatherSoap ob;
   ob = WeatherSoapClient.getObj();
   String id=getZip();
      if(ob.getCityForecastByZIP(id).isSuccess()){
```

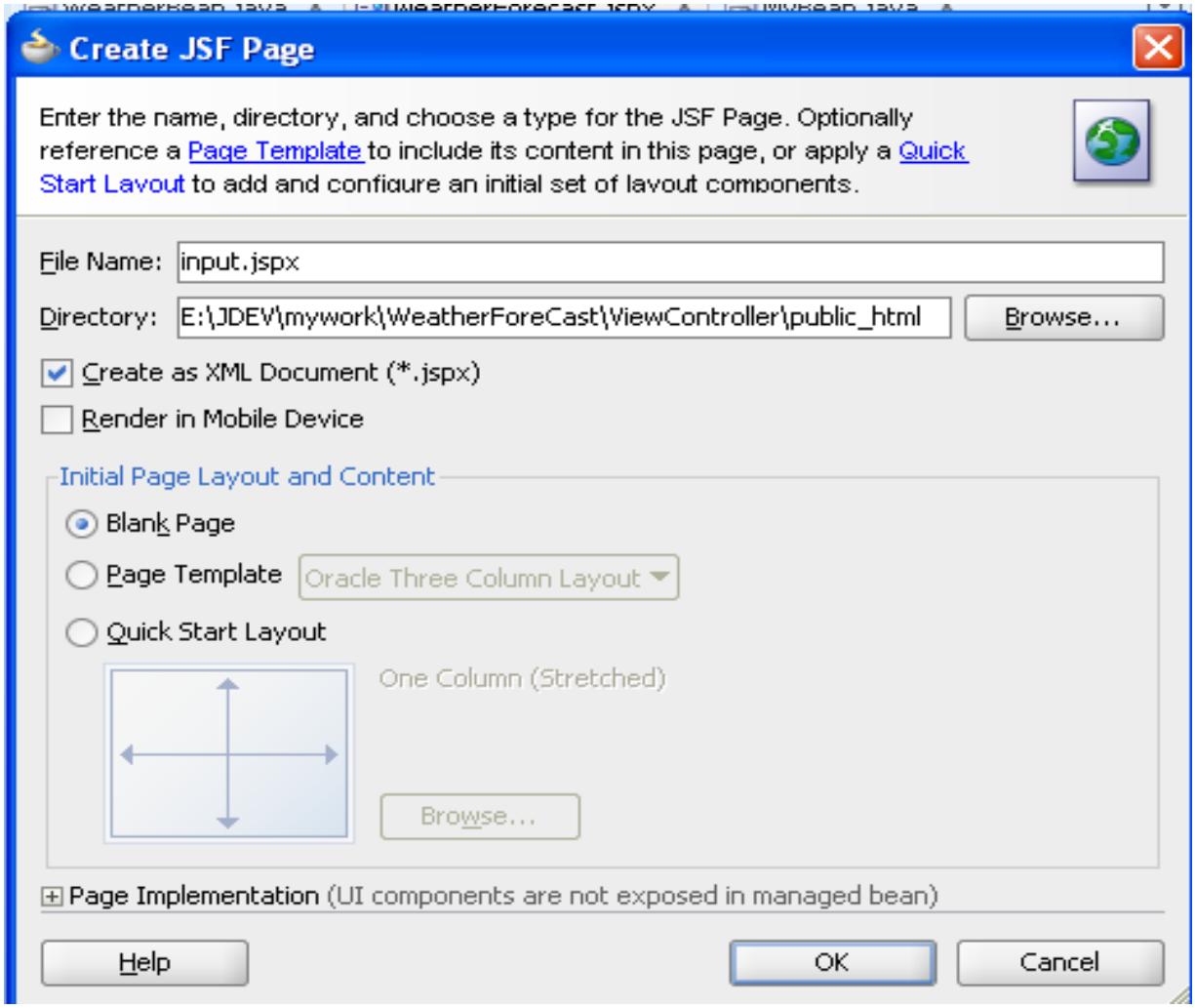
```
        System.out.println(ob.getCityForecastByZIP(id).city);
        for(int i=0;i<ob.getCityForecastByZIP(id).forecastResult.getForecast().size();i++){
           WeatherBean obj=new WeatherBean();
           this.city=ob.getCityForecastByZIP(id).city;

this.date=ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).date.toString().substring(0
, 10);
           obj.setCity(ob.getCityForecastByZIP(id).city);

obj.setDate(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).date.toString().substring
(0, 10));
           obj.setDis(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).desciption);

obj.setHigh(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).getTemperatures().getD
aytimeHigh());

obj.setLow(ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).getTemperatures().getM
orningLow());
           short
id1=ob.getCityForecastByZIP(id).getForecastResult().getForecast().get(i).getWeatherID();
           for(int j=0;j<ob.getWeatherInformation().weatherDescription.size();j++){
              if(ob.getWeatherInformation().getWeatherDescription().get(j).getWeatherID()==id1){
                 obj.setImg(ob.getWeatherInformation().getWeatherDescription().get(j).getPictureURL());
              }

           }
           list.add(obj);
```

```
            }
            System.out.println("BEFORE LENGTH CALCULATION");
            int n=list.size();
            n=n-1;
            System.out.println("Length "+n);
            setLen(n+"");
            setList1(list);
            return "success";
          }else{
             return "failure";
        }
       }
       catch(Exception e){
          e.printStackTrace();
          return "failure";
       }
    }
    public void setZip(String zip) {
       this.zip = zip;
    }
    public String getZip() {
       return zip;
    }
}
```

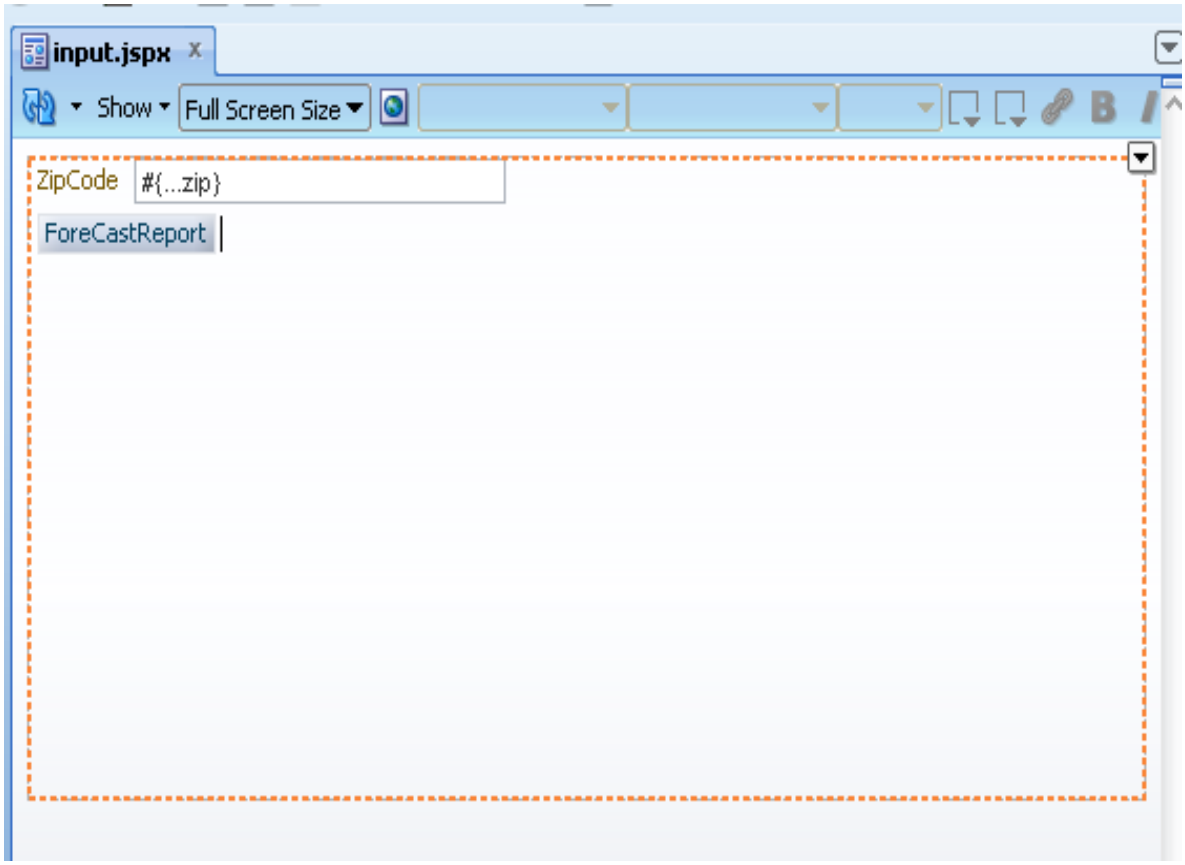
21. **Right-click** on the WebContent Folder and select **new**. Select **JSF** from the left side and **JSF Page** on the right. Then click "**OK**".



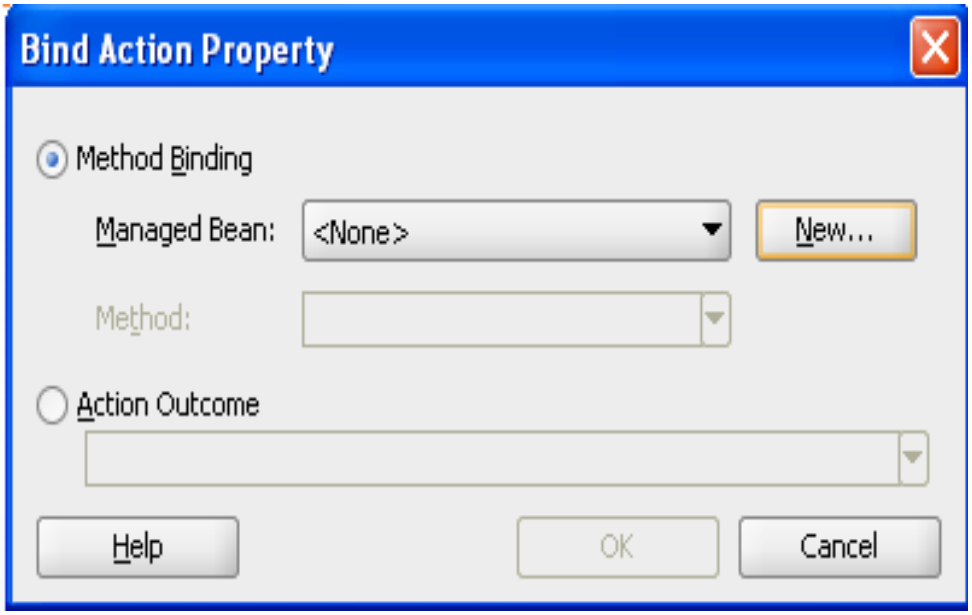
22.Mention your page name as input.jspx.



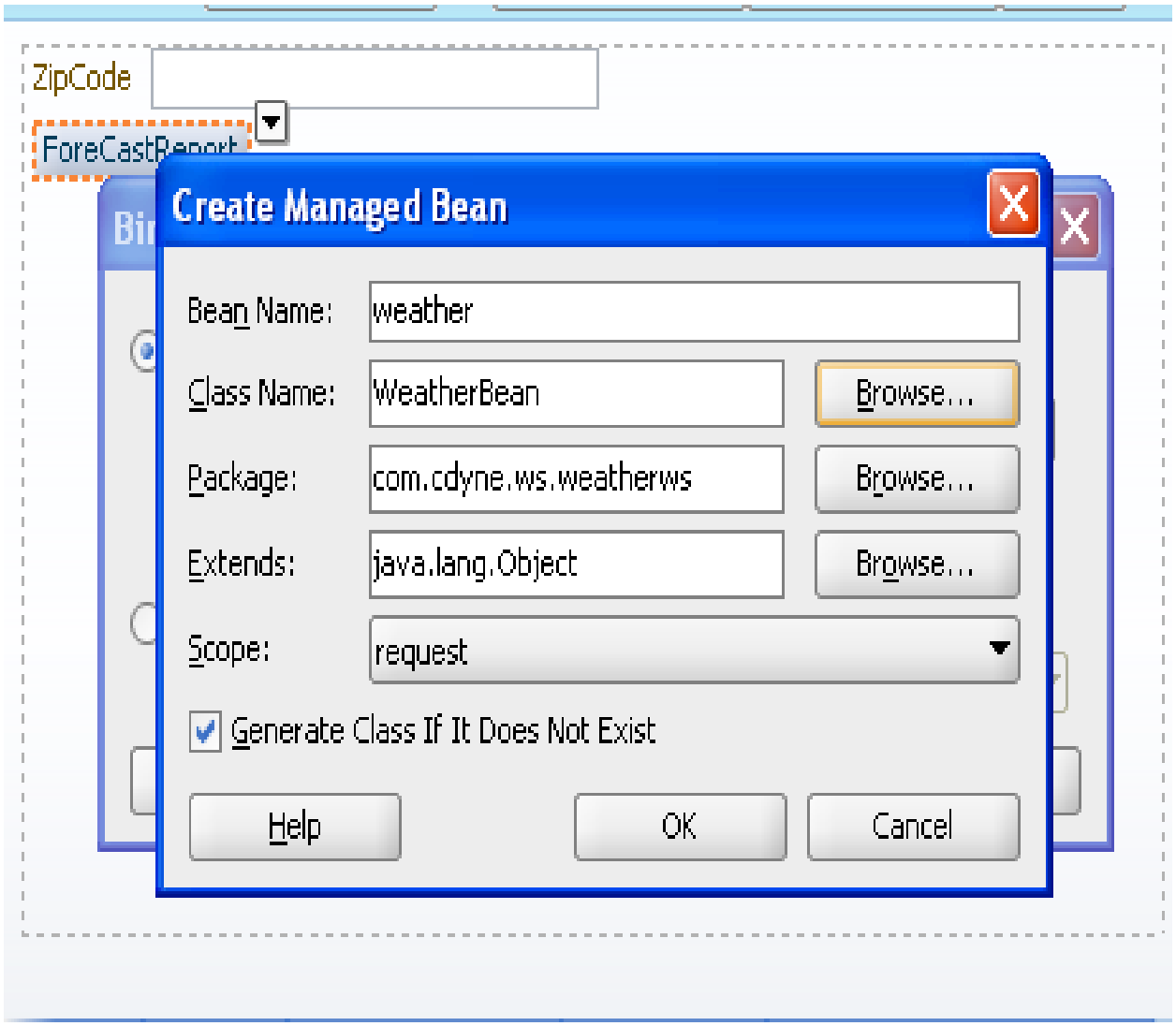
23.In input.jspx page drag and drop a input text and button.

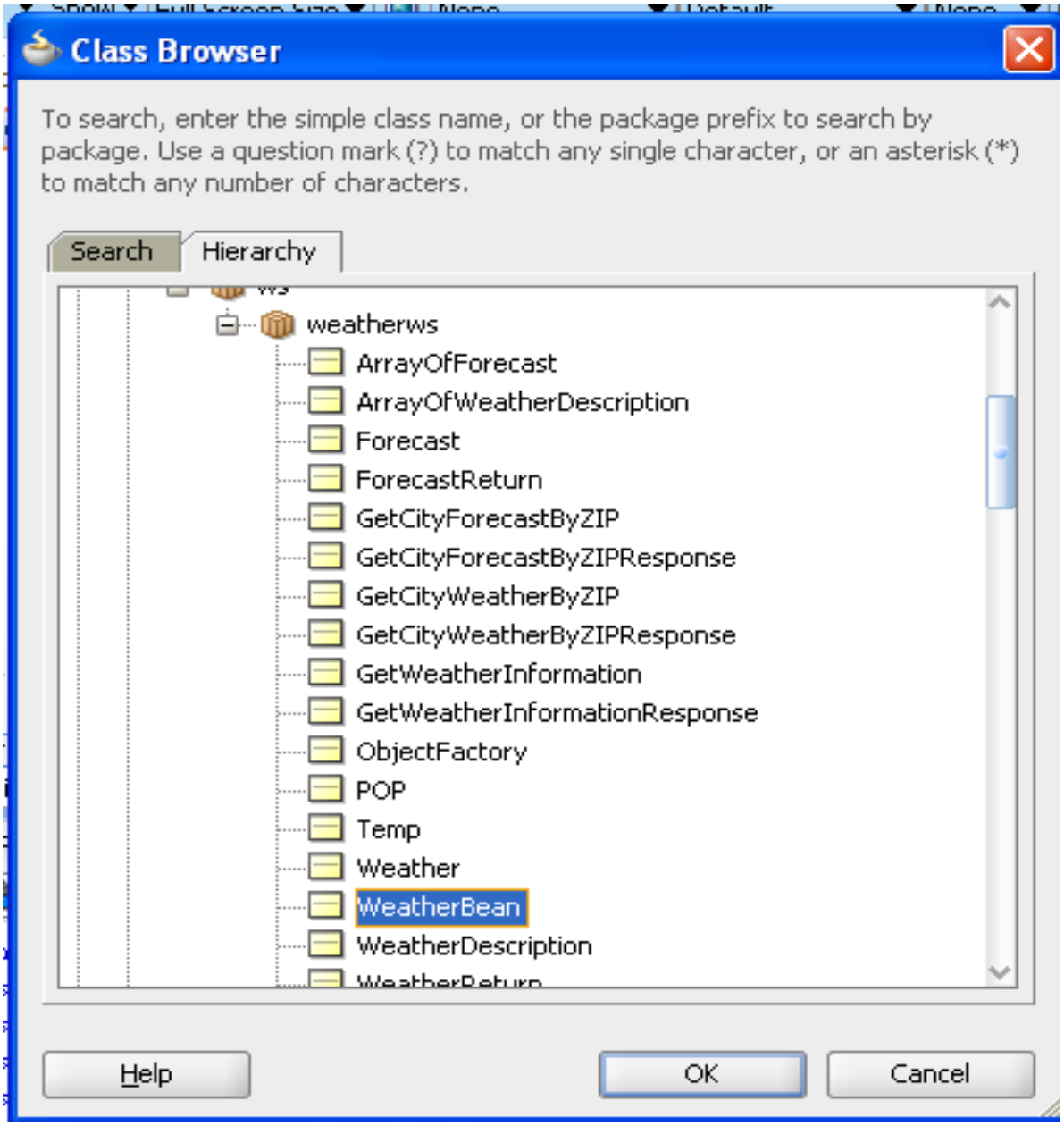


24.Double Click the button.



25.Give the Bean name as Weather,and click browse button select your WeatherBean

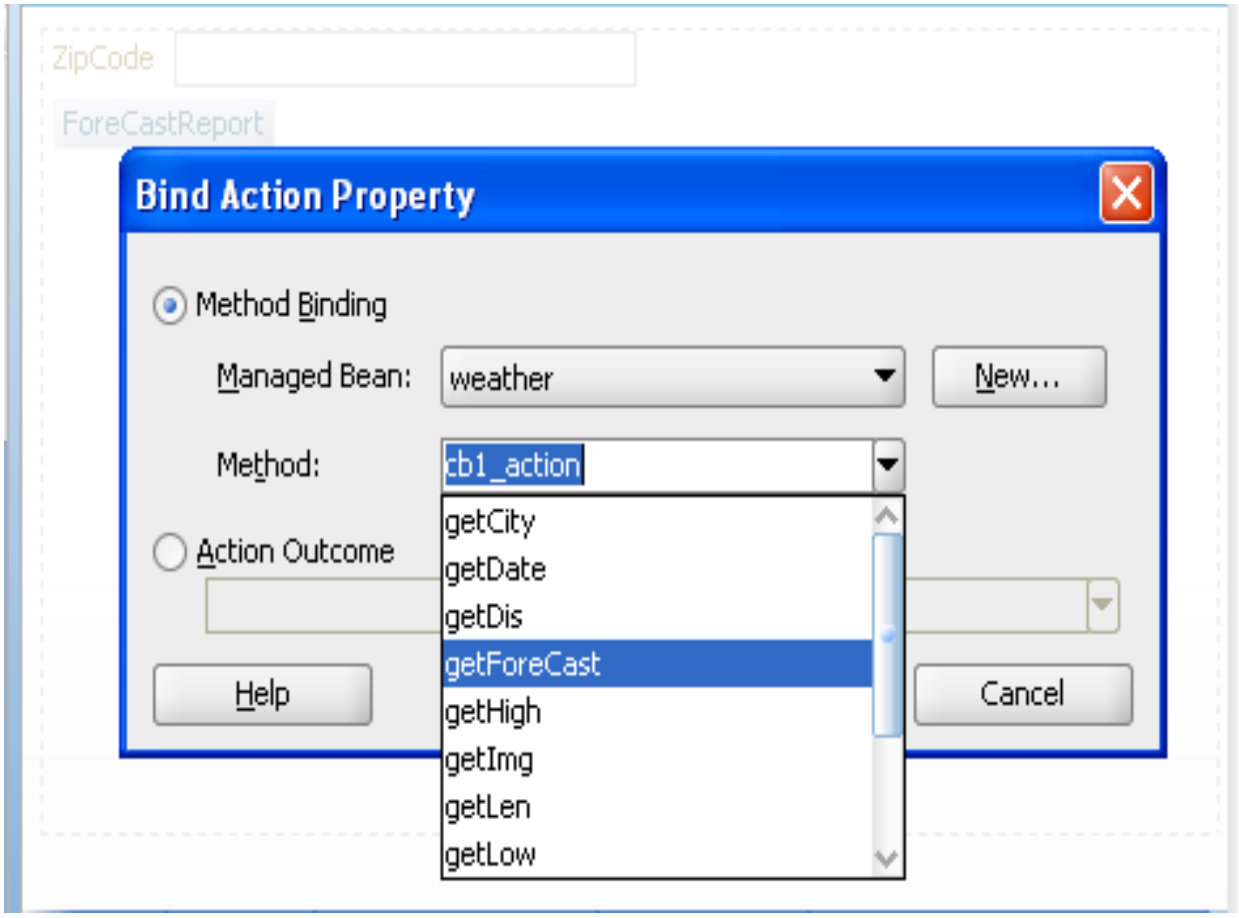



Class Browser
To search, enter the simple class name, or the package prefix to search by package. Use a question mark (?) to match any single character, or an asterisk (*) to match any number of characters.
Search
Hierarchy
weatherws
ArrayOfForecast
ArrayOfWeatherDescription
Forecast
ForecastReturn
GetCityForecastByZIP
GetCityForecastByZIPResponse
GetCityWeatherByZIP
GetCityWeatherByZIPResponse
GetWeatherInformation
GetWeatherInformationResponse
ObjectFactory
POP
Temp
Weather
WeatherBean
WeatherDescription
Help
OK
Cancel

26.

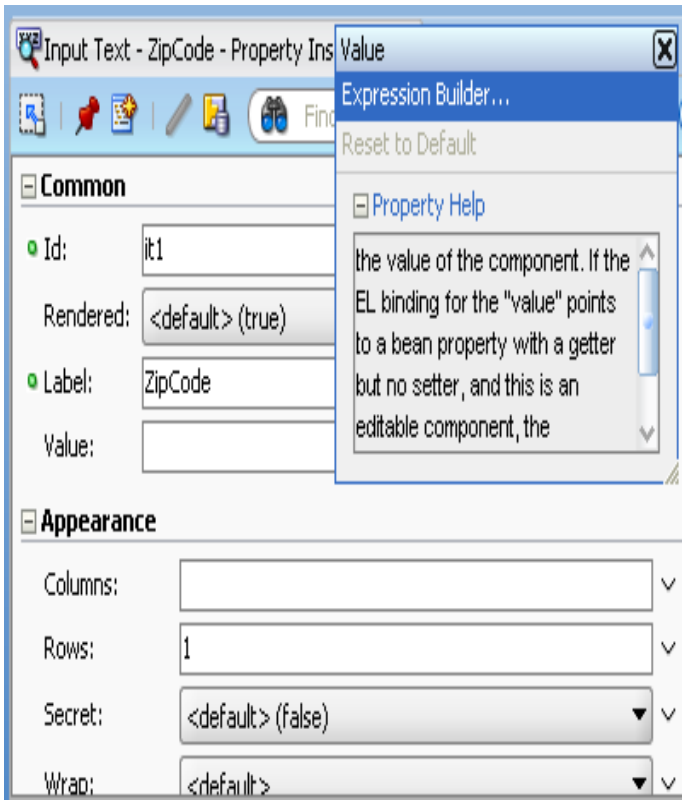
a)In Managed bean select your bean weather.

b)Method:select your getForeCast method.

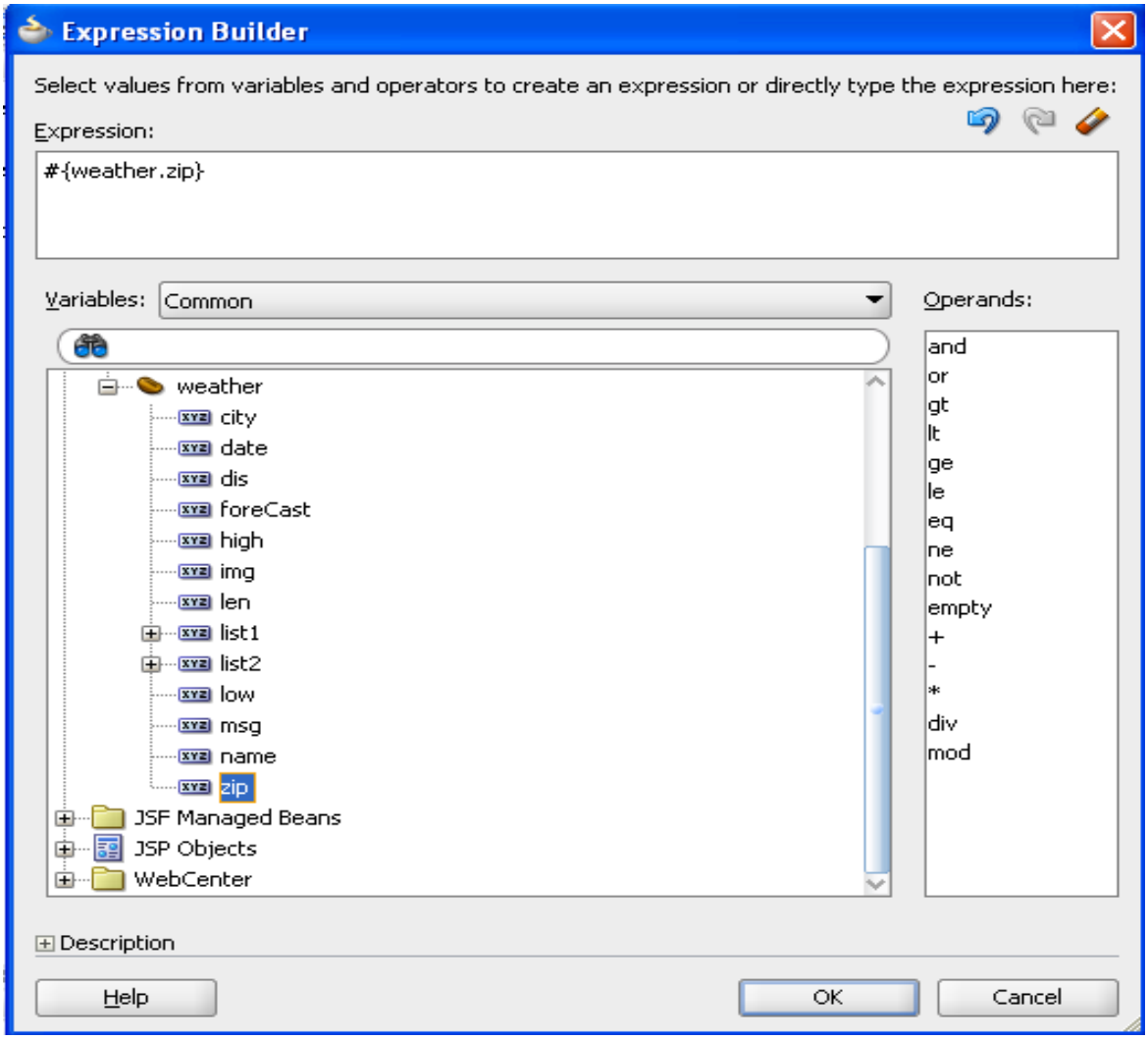


27.Right click the input text go to “propertices” give the label name as ZipCode.

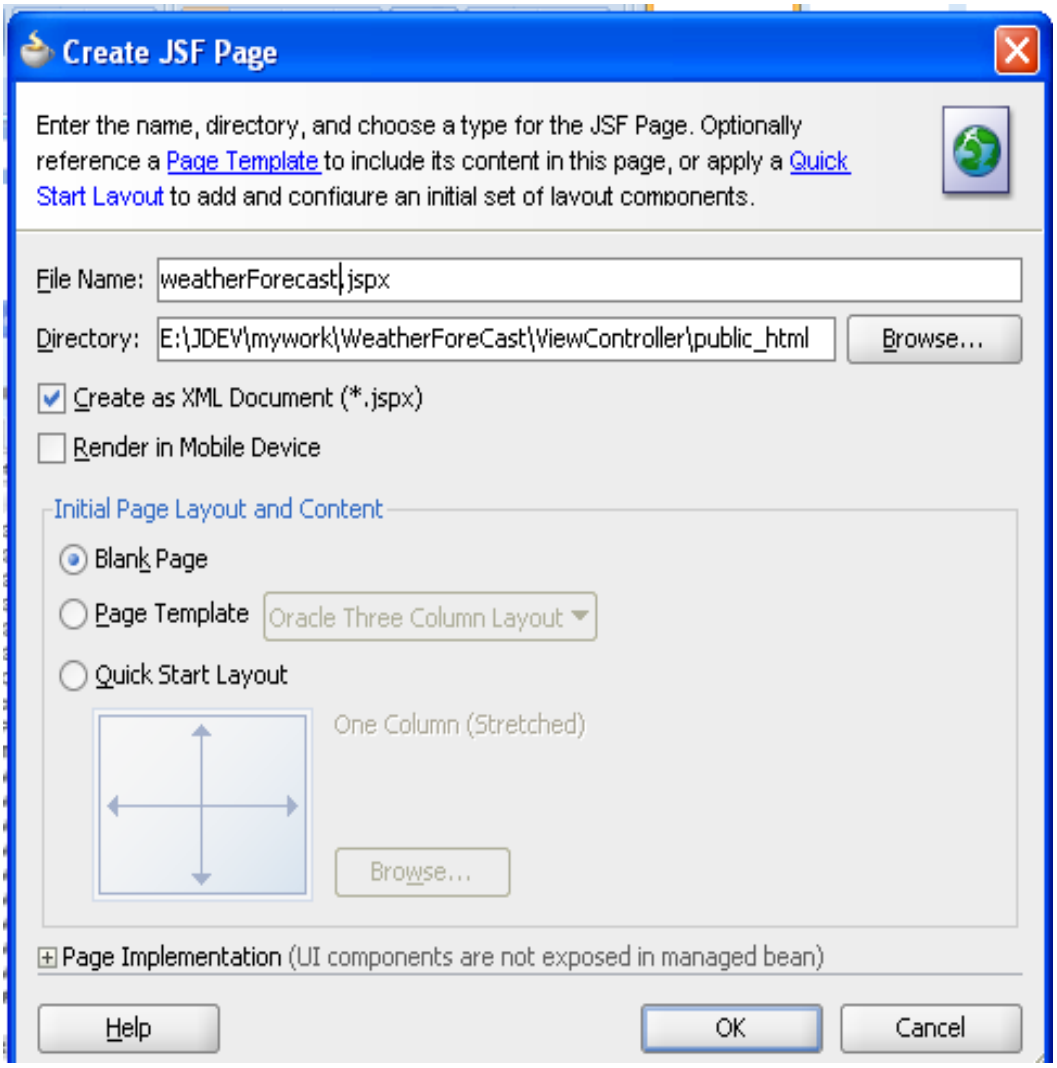
In Value attribute select expression builder



28.select ADF Managed Bean->weather->zip as shown below.



29.Create another jspx page name as weatherForeCast.jspx



30.To add following code in your weatherForeCast.jspx page:

```
<h:outputText id="msg" value="#{weather.msg}" style="width: 500px;color: red; " ></h:outputText>
    <h:dataTable value="#{weather.list1}" var="item" border="1">
<h:column>
<f:facet name="header">
<h:outputText value="City" style="width: 130px; font-family: verdana;" />
</f:facet>
<h:outputText value="#{item.city}" style="width: 130px; font-family: verdana;" />
</h:column>
 <h:column>
<f:facet name="header">
<h:outputText value="City" style="width: 130px; font-family: verdana;" />
</f:facet>
<h:outputText value="#{item.city}" style="width: 130px; font-family: verdana;" />
</h:column>
 <h:column>
<f:facet name="header">
<h:outputText value="Date" style="width: 130px; font-family: verdana;" />
</f:facet>
<h:outputText value="#{item.date}"  style="width: 130px; font-family: verdana;" />
</h:column>
 <h:column>
<f:facet name="header">
<h:outputText value="Discription"style="width: 130px; font-family: verdana;" />
```

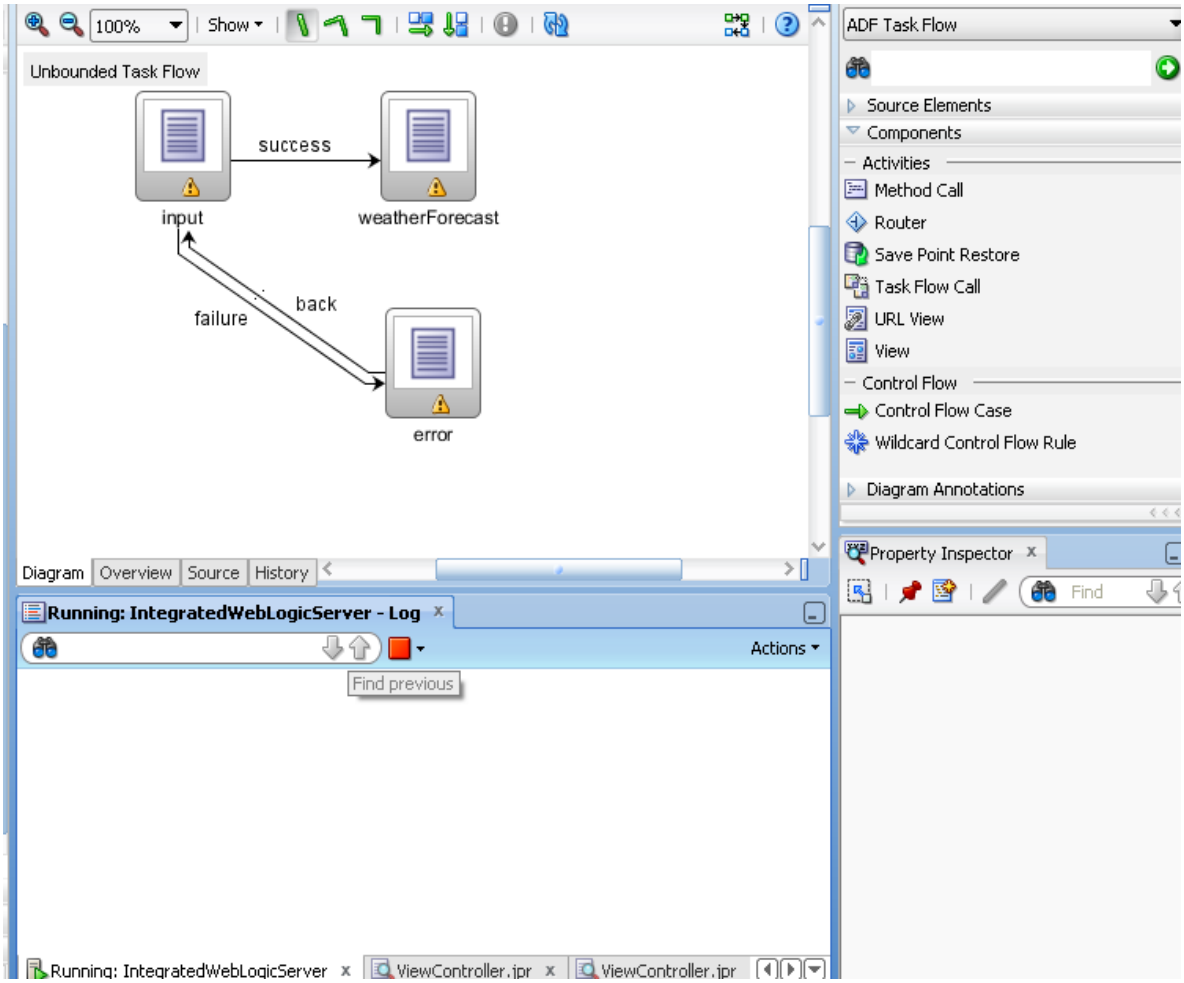
```
</f:facet>
<h:outputText value="#{item.dis}" style="width: 130px; font-family: verdana;" />
</h:column>
 <h:column>
<f:facet name="header">
<h:outputText value="High" style="width: 130px; font-family: verdana;" />
</f:facet>
  <h:outputText value="#{item.high}"  style="width: 130px; font-family: verdana;" />
</h:column>
  <h:column>
<f:facet name="header">
<h:outputText value="Low"  style="width: 130px; font-family: verdana;" />
</f:facet>
  <h:outputText value="#{item.low}"  style="width: 130px; font-family: verdana;" />
</h:column>
<h:column>
<f:facet name="header">
<h:outputText value="Image" style="width: 200px; font-family: verdana;" />
</f:facet>
<af:image id="im" source="#{item.img}" ></af:image>
</h:column>
</h:dataTable>
```

31.Create another jspx page name as error.jspx

To add following code in error.jspx page:

```
<af:form id="f1">
    <br></br>
    <br></br>
    <br></br>
    <br></br>
    <center><b><font color="red" size="4">
    Your ZipCode Does Not Point Out Any City
    Pls Check Your ZipCode !....
    <br></br>
    <br></br>

        </font></b>
        <af:commandButton text="Back" id="cb1" action="back"/>
    </center>
    </af:form>
```

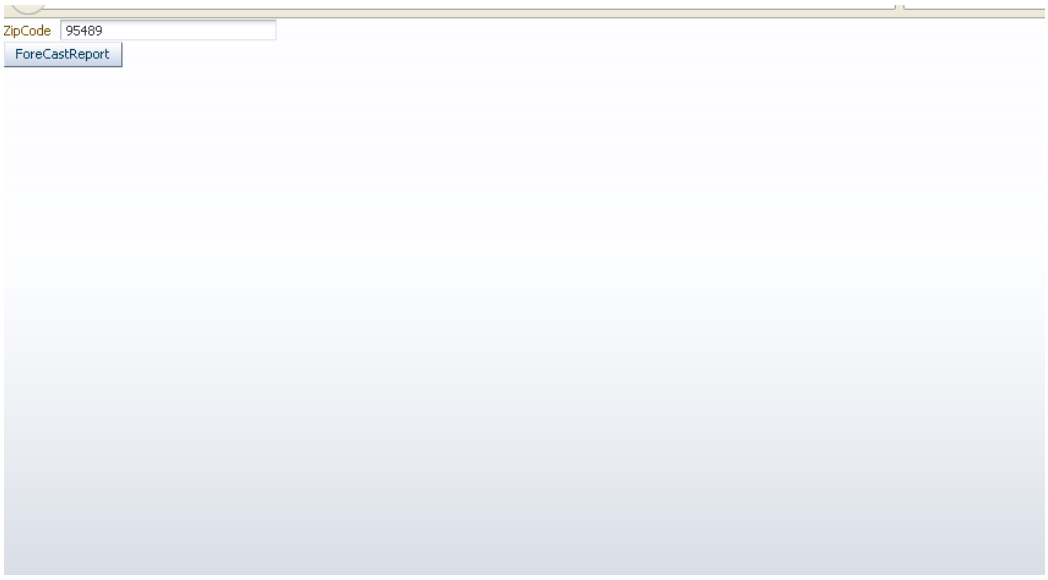
32.Drag and drop your three jspx in following format, and use control flow to connect these pages

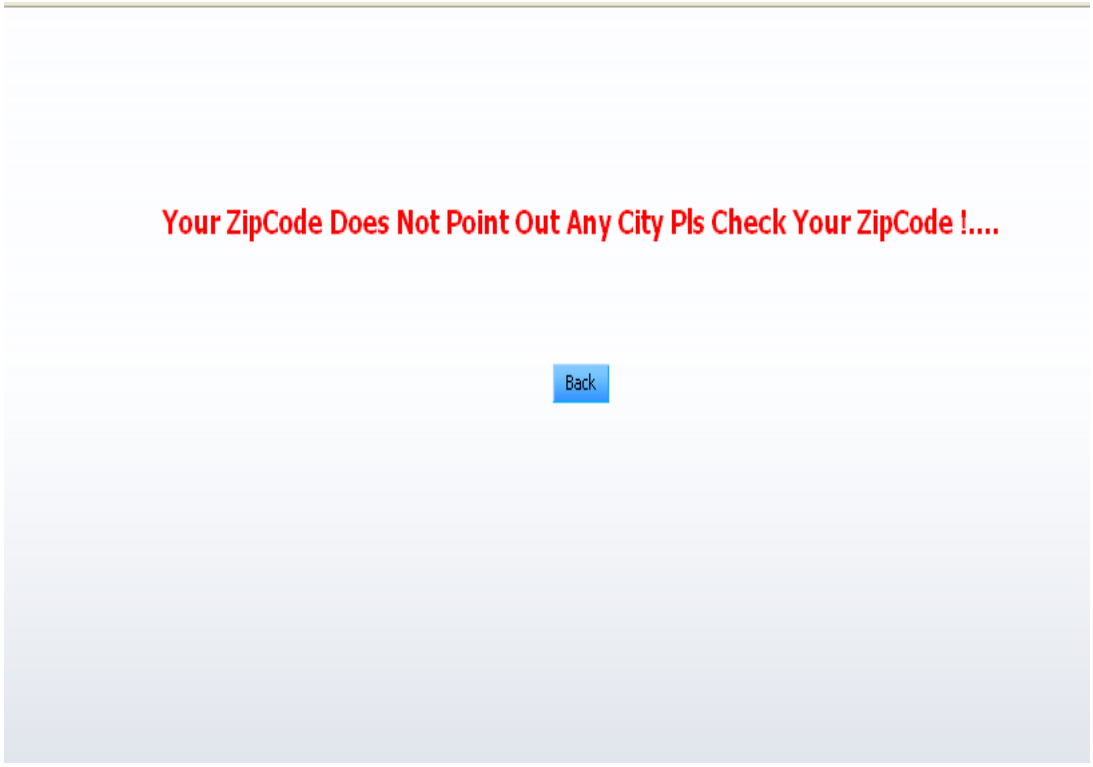


OutPut:


127.0.0.1:7101/WeatherForeCast-ViewController-context-root/faces/input?_afrLoop=
ZipCode
95488
ForeCastReport

City	City	Date	Discription	High	Low	Image
Westport	Westport	2013-05-22	Sunny	55		
Westport	Westport	2013-05-23	Sunny	55	40	
Westport	Westport	2013-05-24	Partly Cloudy	57	45	
Westport	Westport	2013-05-25	Partly Cloudy	58	48	
Westport	Westport	2013-05-26	Partly Cloudy	56	49	
Westport	Westport	2013-05-27	Mostly Cloudy	58	47	
Westport	Westport	2013-05-28	Showers	58	48	


ZipCode
95489
ForeCastReport


Your ZipCode Does Not Point Out Any City Pls Check Your ZipCode !....
Back