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EXERCISE

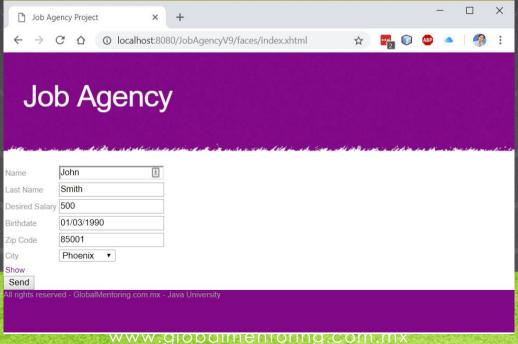
FACELETS IN JSF



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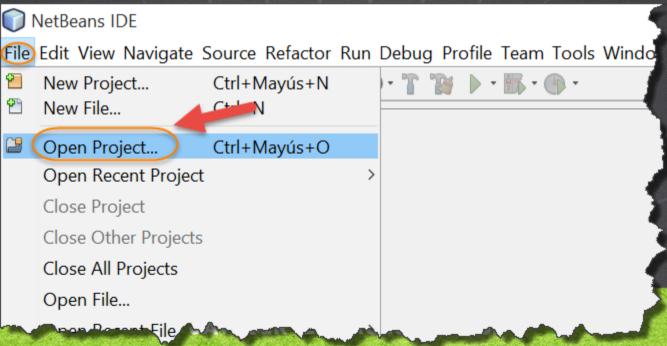
EXERCISE OBJECTIVE

The objective of this exercise is to implement Facelets technology, which are the presentation technology that replaces the JSPs when We use JSF. The result will be similar to the following figure:



1. OPEN PROJECT

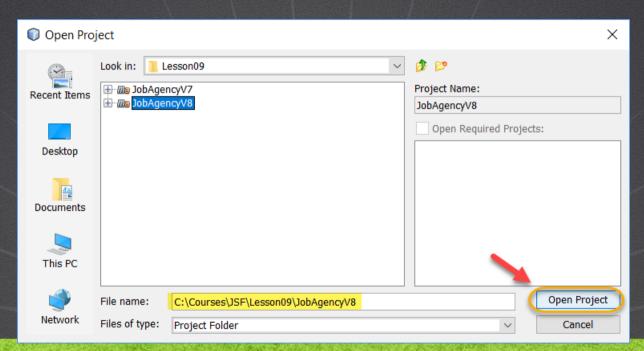
We open the JobAgencyV8 project, just in case we do not have it open:



1. OPEN PROJECT

We open the JobAgencyV8 project, just in case we do not have

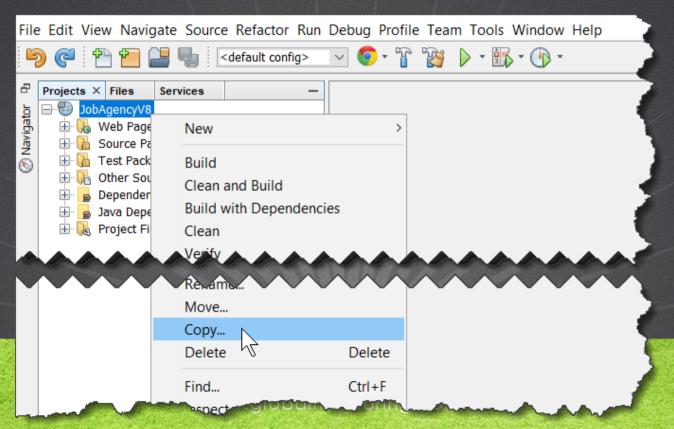
it open:



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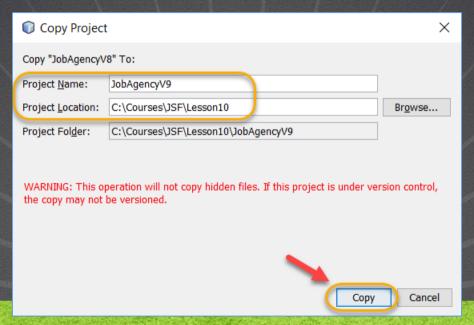
2. COPY THE PROJECT

We copy the JobAgencyV8 project:



2. COPY THE PROJECT

We copy the JobAgencyV8 project and rename it to JobAgencyV9 and deposit it in the new route shown:

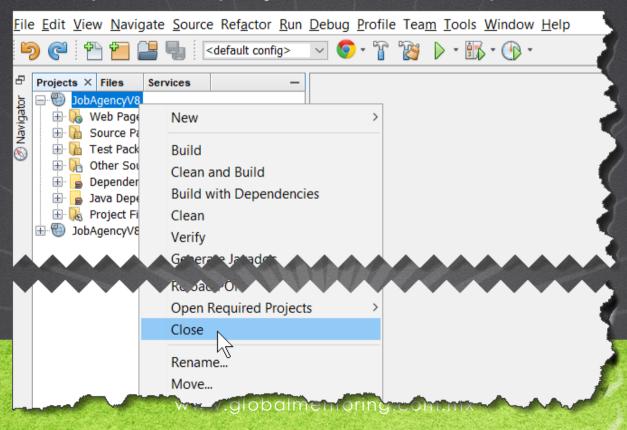


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3. CLOSE THE PROJECT

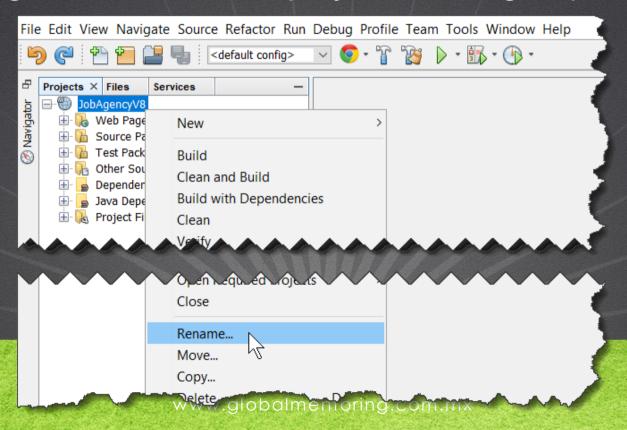
We closed the previous project, and left only the new one

open:



4. RENAME THE PROJECT

We changed the name of the project to JobAgencyV9:



4. RENAME THE PROJECT

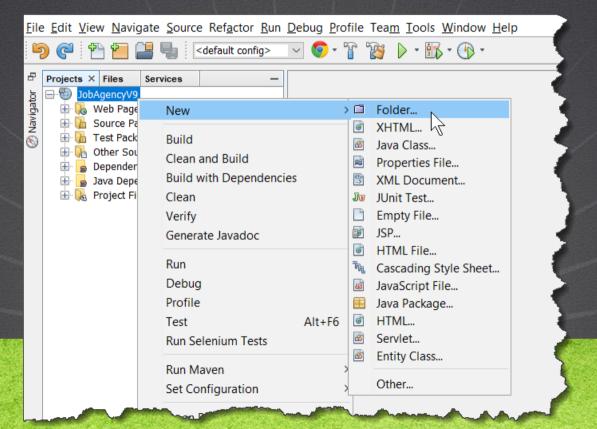
We changed the name of the project to JobAgencyV9

| Rename Project | × |
|------------------------------------|-----------|
| Rename Project "JobAgencyV8" | |
| ✓ Change Display Name: JobAgencyV9 | |
| ✓ Change ArtifactID: JobAgencyV9 | |
| Rename Folder: JobAgencyV9 | |
| | |
| | |
| | |
| | |
| | OK Cancel |

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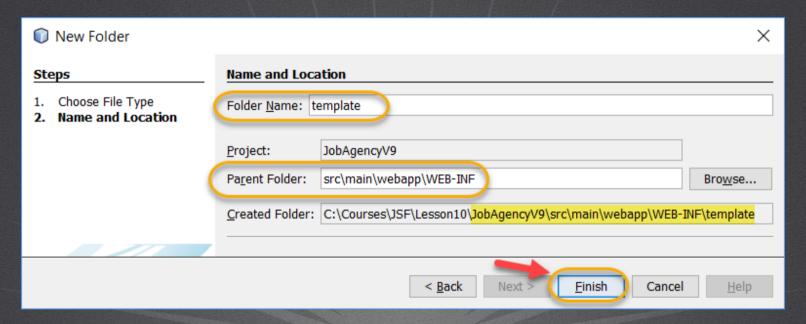
5. CREATE A FOLDER

Create a folder called template within WEB-INF:



5. CREATE A FOLDER

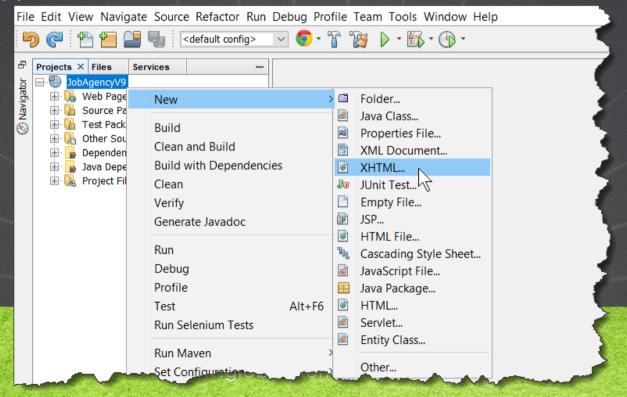
Create a folder called template within WEB-INF:



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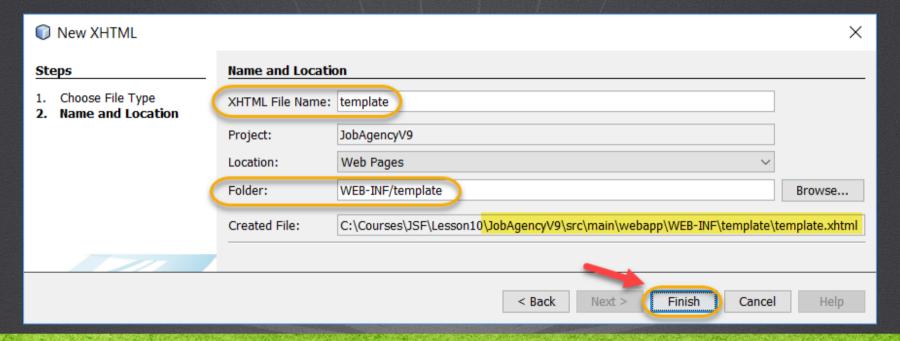
6. CREATE AN XHTML FILE

We create the template.xhtml file that will be the template to use in JSF.



6. CREATE AN XHTML FILE

We create the template.xhtml file:



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template.xhtml:

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```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"</pre>
      xmlns:ui="http://java.sun.com/jsf/facelets"
      xmlns:h="http://java.sun.com/jsf/html">
  <h:head>
    <h:outputStylesheet library="css" name="styles.css" />
    <title>Job Agency Project</title>
  </h:head>
  <h:body>
    <div id="wrapper">
      <div id="header-wrapper">
        <ui:insert name="top">
          <div id="header">
            <div id="logo">
              <h1>Job Agency</h1>
            </div>
          </div>
        </mi:insert>
      </div>
```

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template.xhtml:

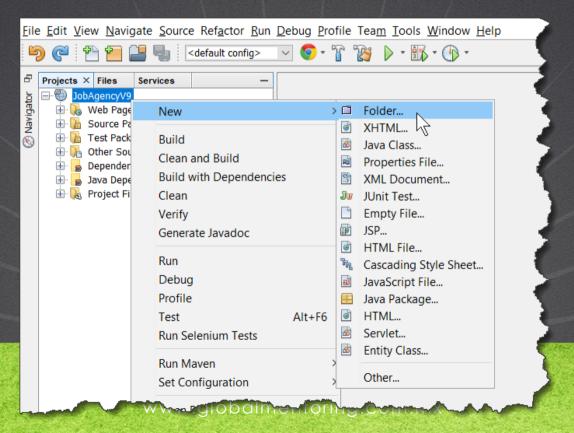


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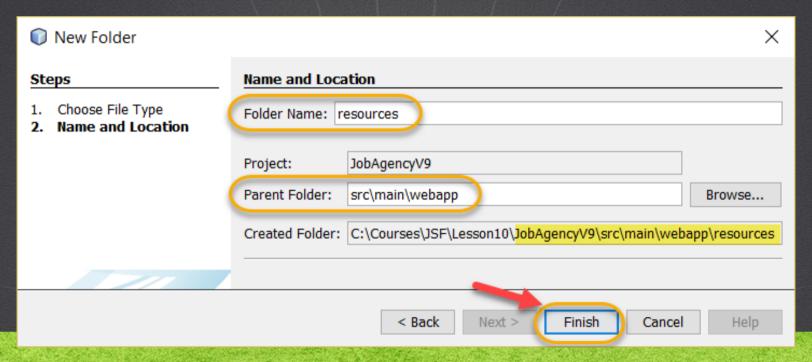
8. CREATE A FOLDER

We create a folder called resources:



8. CREATE A FOLDER

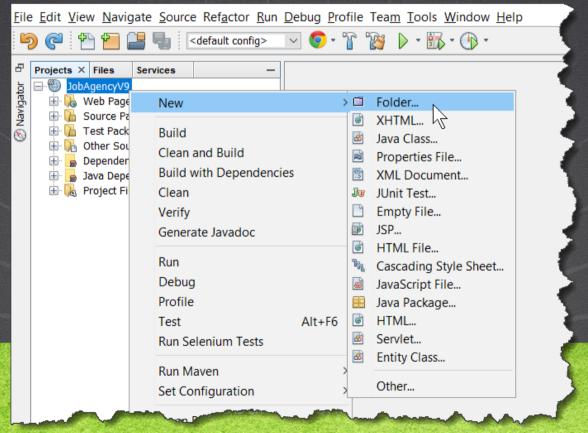
We create a folder called resources:



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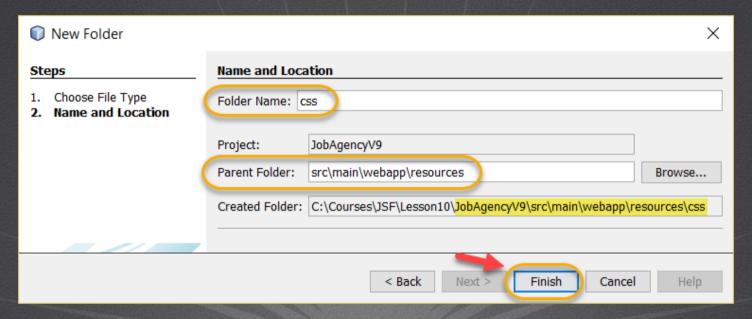
9. CREATE A NEW FOLDER

We create a folder called css:



9. CREATE A NEW FOLDER

We create a folder called css:

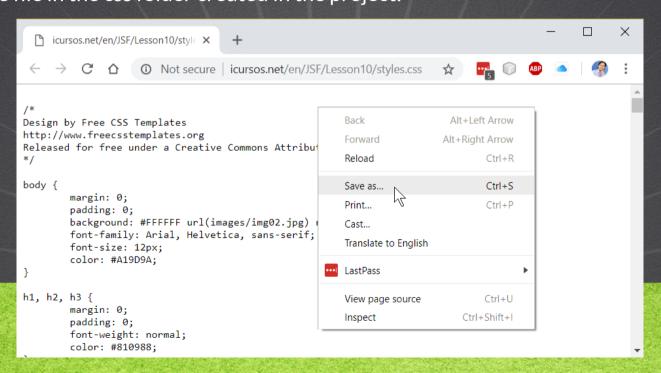


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10. DOWNLOAD CSS FILE

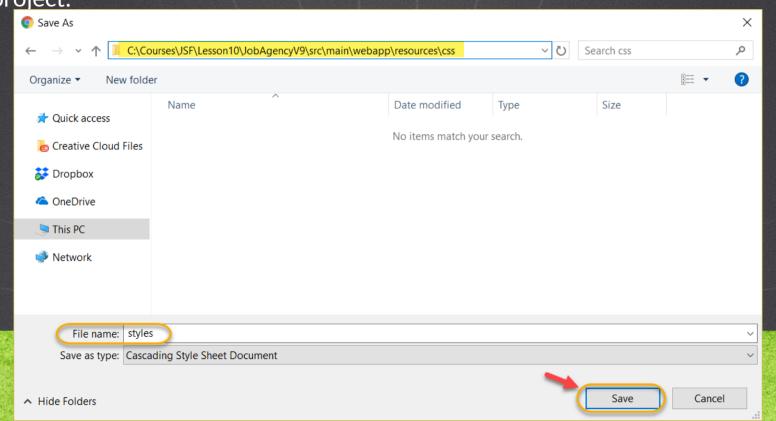
Download the styles.css file: http://icursos.net/en/JSF/Lesson10/styles.css

We save the file in the css folder created in the project:



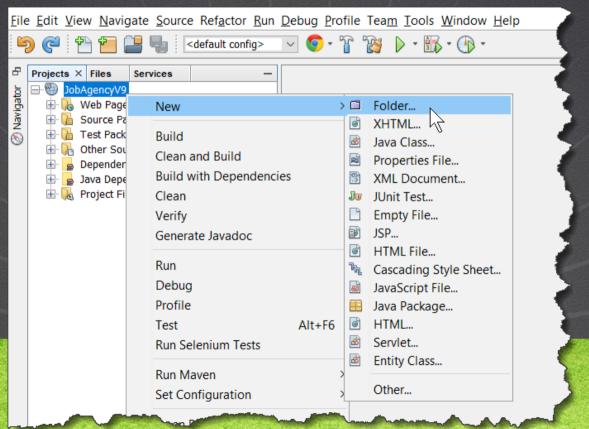
10. DOWNLOAD CSS FILE

We save the styles.css file in the path shown, or according to the path where we have our project:



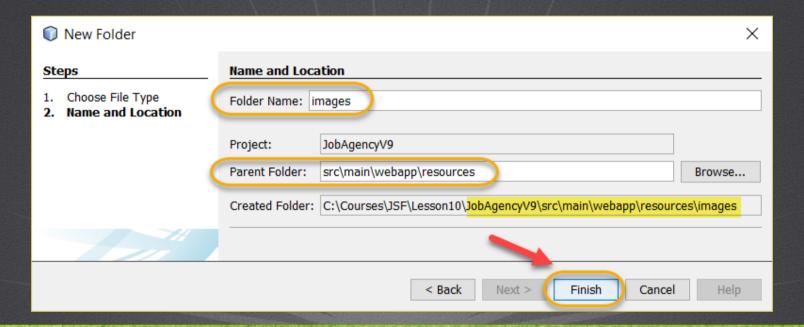
11. CREATE A FOLDER

We create a folder called images:



11. CREATE A FOLDER

We create a folder called images:



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We download two images and save them in the newly created images folder:

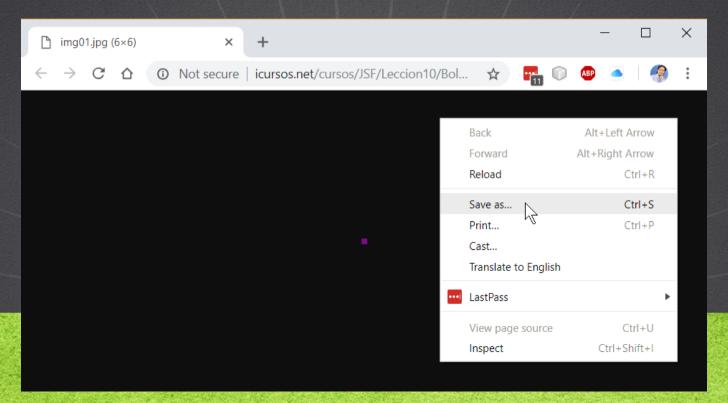
http://icursos.net/en/JSF/Lesson10/img01.jpg

http://icursos.net/en/JSF/Lesson10/img02.jpg

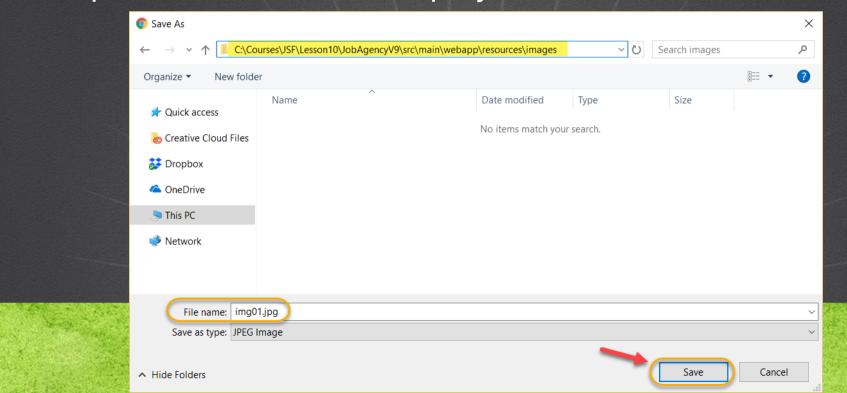
We save both images as follows:

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We download the image img01.jpg: http://icursos.net/en/JSF/Lesson10/img01.jpg

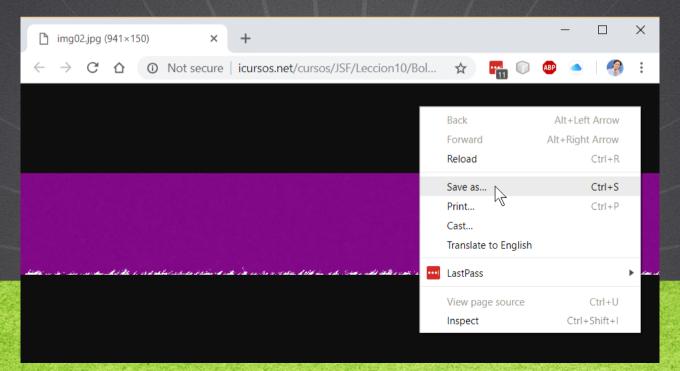


We save the file img01.jpg in the path shown, or according to the path where we have our project:

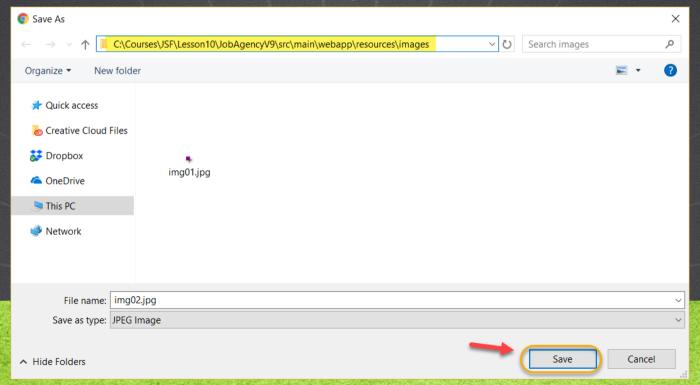


We download the image img02.jpg:

http://icursos.net/en/JSF/Lesson10/img02.jpg



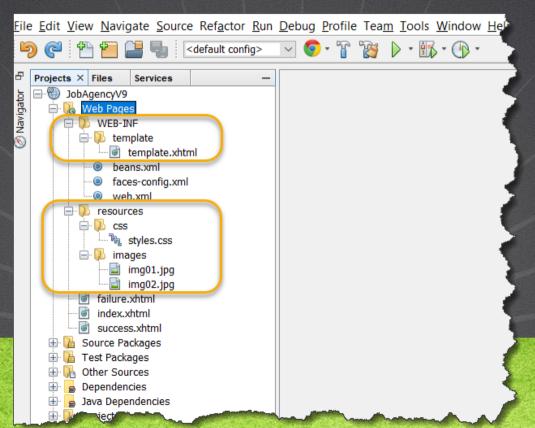
We save the file img02.jpg in the path shown, or according to the path where we have our project:



13. STRUCTURE REVISION

After the changes made the project has the following

structure:



14. MODIFY THE XHTML FILE

We modify the index.xhtml file as follows:

Immediately after the <h: body> tag insert the following:

And close these tags after the end tag of the form </ h: form > and before the end tag of </ body>:

```
</ui:define>
</ui:composition>
```

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index.xhtml:

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```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml"</pre>
     xmlns:h="http://java.sun.com/jsf/html"
     xmlns:f="http://xmlns.jcp.org/jsf/core">
   <h:head>
       <title>Job Agency V7</title>
   </h:head>
   <h:bodv>
       <ui:composition xmlns:ui="http://java.sun.com/jsf/facelets"
                     template="./WEB-INF/template/template.xhtml">
          <ui:define name="content">
              <h:form id="vacantForm">
                 <h:messages qlobalOnly="true" ></h:messages>
                 >
                        <h:outputLabel for="name" value="#{msqs['vacantForm.name']}" />
                        <h:inputText id="name" required="true" value="#{candidate.name}" />
                        /
                     </t.r>
                     >
                        <h:outputLabel for="lastName" value="#{msqs['vacantForm.lastName']}" />
                        <h:inputText id="lastName" required="true" value="#{candidate.lastName}" />
                        /
                     </t.r>
```

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index.xhtml:

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```
>
    ioutputLabel for="desiredSalary" value="#{msqs['vacantForm.desiredSalary']}" />
    <h:inputText id="desiredSalary" required="true"
                   value="#{candidate.desiredSalary}">
           <f:validateLongRange minimum="500" maximum="5000"/>
       </h:inputText>
    <h:message for="desiredSalary" />
<t.r>
    <h:outputLabel for="birthdate" value="#{msqs['vacantForm.birthdate']}" />
    <h:inputText id="birthdate" required="true"
                   value="#{candidate.birthdate}">
           <f:convertDateTime pattern="MM/dd/yyyy" />
       </h:inputText>
    <h:message for="birthdate" />
</t.r>
<t.r>
    <h:outputLabel for="zipCode" value="#{msqs['vacantForm.zipCode']}" />
    <h:inputText id="zipCode" immediate="true"
                   onchange="this.form.submit()" required="true"
                   value="#{candidate.zipCode}"
                   valueChangeListener="#{vacantForm.zipCodeListener}" >
           <f:convertNumber integerOnly="true" pattern="00000"/>
       </h:inputText>
    /
```

index.xhtml:

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```
>
       >h:outputLabel for="cityId" value="#{msqs['vacantForm.citvId']}" />
       >
          <h:selectOneMenu id="cityId" required="true" value="#{candidate.cityId}">
              <f:selectItem itemLabel="#{msqs['vacantForm.select']}" itemValue="" />
              <f:selectItems value="#{citvHelper.selectItems}" />
          </h·selectOneMenu>
       /<td" />
   >
       <64>
          <h:commandLink actionListener="#{vacantForm.hideComment}"
                        immediate="true" rendered="#{!vacantForm.commentSent}"
                        value="#{msgs['vacantForm.show']}" />
          <h:commandLink actionListener="#{vacantForm.hideComment}"</pre>
                        immediate="true" rendered="#{vacantForm.commentSent}"
                        value="#{msgs['vacantForm.hide']}" />
       </t.d>
```

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index.xhtml:

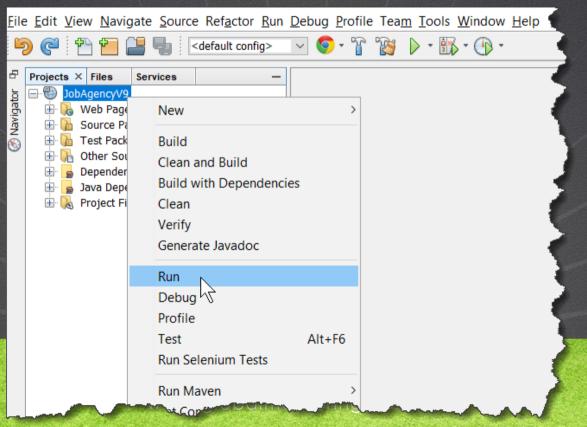
Click to download

```
<h:panelGroup rendered="#{vacantForm.commentSent}">
                     >
                             <h:outputLabel for="comment" value="#{msgs['vacantForm.comment']}" />
                         </t.r>
                         <h:inputTextarea id="comment" cols="50" rows="10" value="#{candidate.comment}" />
                         </h:panelGroup>
                  <h:commandButton action="#{vacantForm.send}" value="#{msqs['vacantForm.send']}" />
              </h:form>
          </ui:define>
       </ui:composition>
   </h:body>
</html>
```

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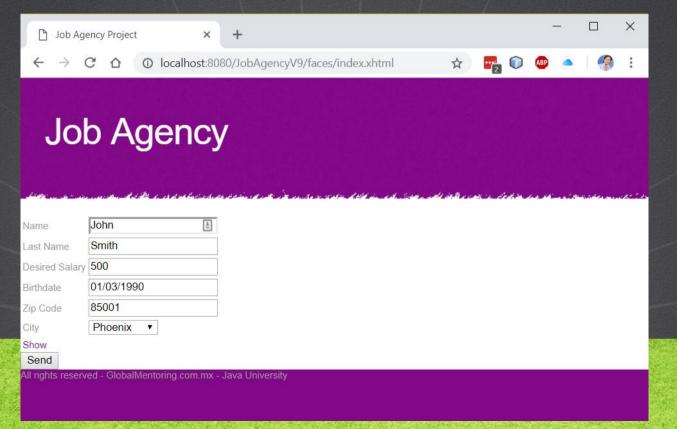
15. EXECUTE THE PROJECT

Execute the Project:



15. EXECUTE THE PROJECT

We execute the project. The result is similar to the following:



EXERCISE CONCLUSION

With this exercise we have put into practice the use of Facelets templates in JSF.

As we saw in the exercise, in the file template.xhtml we define the sections of our web application (top, content, bottom), and later on our remaining pages all we have to do is overwrite the sections that we need to modify.

In the case of the index.xhtml page, we redefined the "content" section, but the top (header) and bottom (footer) sections were taken directly from the templates and it was necessary to modify those sections by the index.xhtml page.

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ONLINE COURSE

JAVASERVER FACES (JSF)

By: Ing. Ubaldo Acosta



JAVASERVER FACES COURSE