SERVLETS AND JSP COURSE

EXPRESSION LANGUAGE WITH JSP'S



By the expert: Eng. Ubaldo Acosta

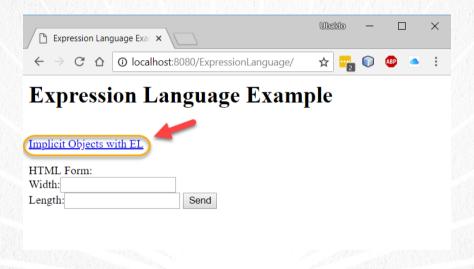




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EXERCISE OBJECTIVE

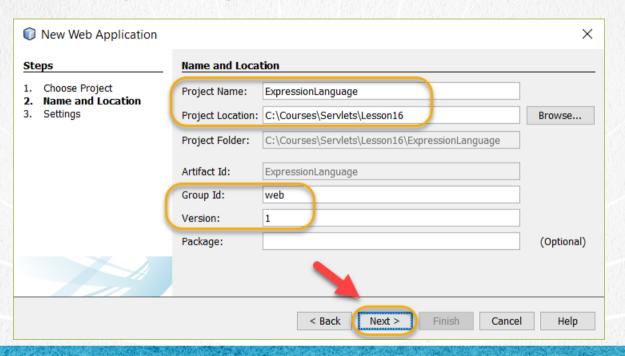
Create a Web project to implement the Expression Language concept. At the end we should observe the following:



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1. CREATE A NEW PROJECT

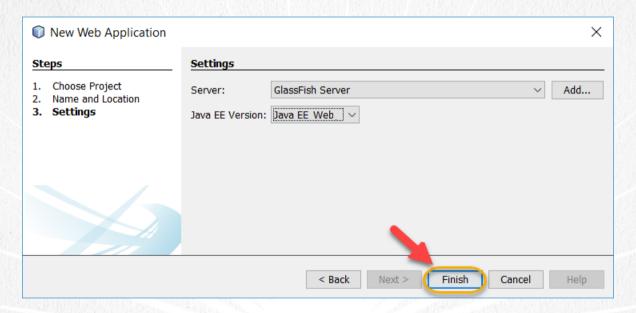
Create a new web Project using Maven:



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1. CREATE A NEW PROJECT (CONT)

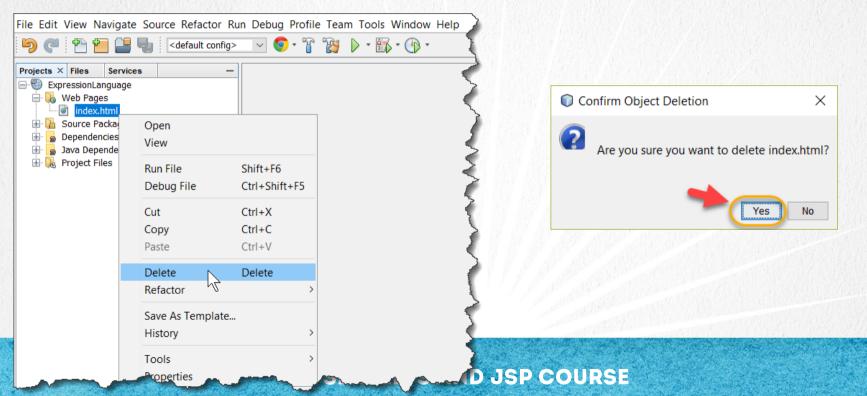
Create a new project:



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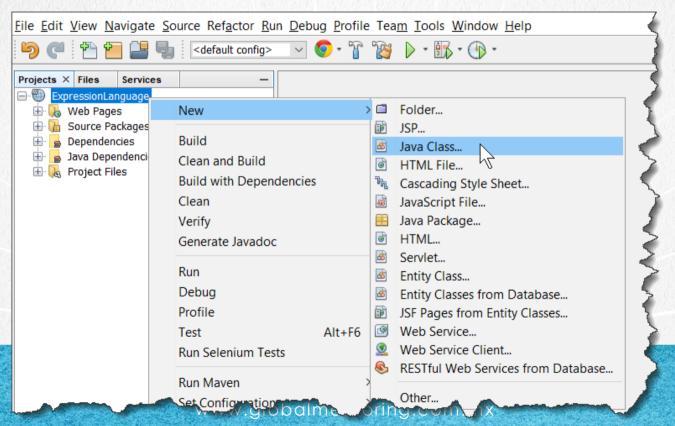
2. DELETE THE INDEX.HTML FILE

Delete the index.html file:



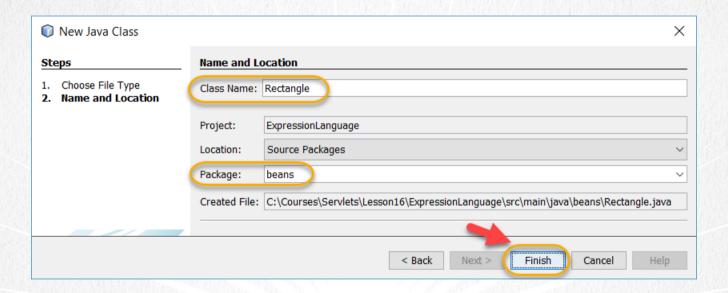
3. CREATE A NEW CLASS

Create a new Rectangle.java class:



3. CREATE A NEW CLASS

Create a new Rectangle.java:



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4. MODIFY THE FILE

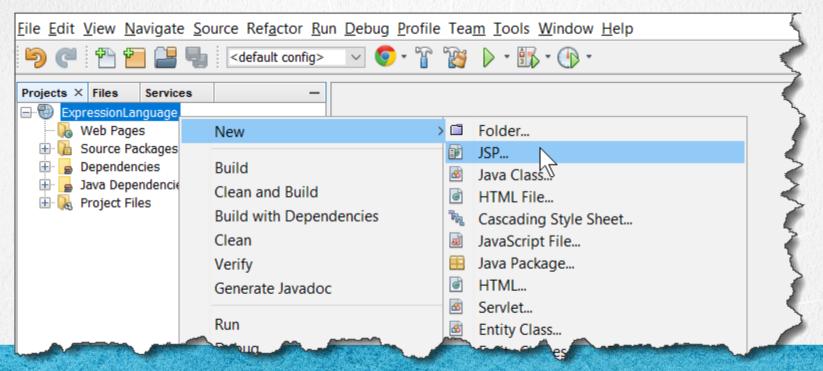
Rectangle.java:

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```
package beans;
public class Rectangle {
  private int width = 5;
  private int length = 10;
  public int getLength() {
   return length;
  public void setLength(int length) {
    this.length = length;
  public int getWidth() {
   return width;
  public void setWidth(int width) {
    this.width = width:
  public int getArea(){
    return this.width * this.length;
```

5. CREATE A NEW JSP

Create the javaBeanJsp.jsp file:



5. CREATE A NEW JSP

Create the javaBeanJsp.jsp file:

New JSP			×	
Steps	Name and Lo	ocation		
Choose File Type Name and Location	File Name:	javaBeanJsp		
	Project:	ExpressionLanguage		
	Location:	Web Pages ∨		
	Folder:		Browse	
	Created File:	$\fbox{ C:\Courses\Servlets\Lesson16\Expression\Language\src\main\webapp\java} }$	BeanJsp.jsp	
	Options:			
	JSP File (Standard Syntax) Create as a JSP Segment			
	◯ JSP Doc	ument (XML Syntax)		
	Description:			
	A JSP file usi	ng JSP standard syntax.		
		< Back Next > Finish Cancel	Help	

6. MODIFY THE FILE

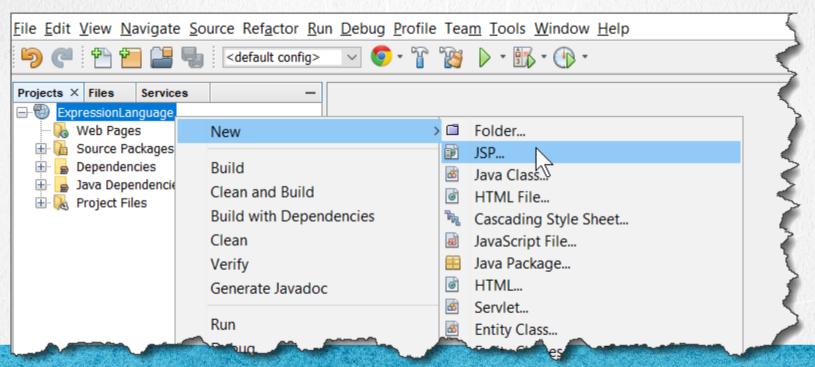
javaBeanJsp.jsp:

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```
<html>
    <head>
         <meta charset="UTF-8">
         <title>Access to the JavaBean</title>
    </head>
    <body>
         <h1>Access to the JavaBean</h1>
         <jsp:useBean id="rectangle" class="beans.Rectangle" />
         <!-- assign the form values to the JavaBean -->
         <jsp:setProperty name="rectangle" property="*" />
         <hr>>
         Width value: ${rectangle.width}
         \langle br \rangle
         Length value: ${rectangle.length}
         \langle hr \rangle
         Area value: ${rectangle.area}
         <br>
         Area calculation: ${rectangle.width*rectangle.length}
         \langle br \rangle
         \langle br \rangle
         <a href="index.jsp">Return to index</a>
    </body>
</html>
```

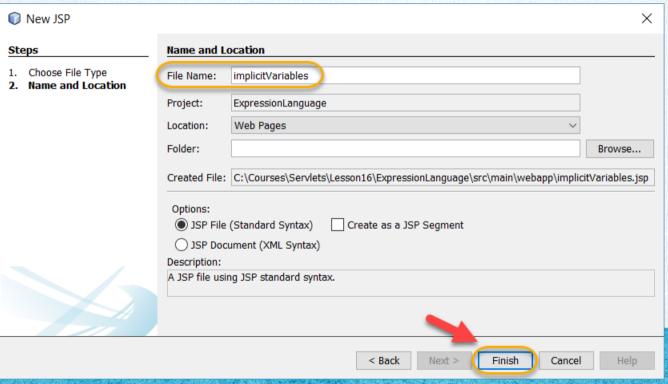
7. CREATE A NEW JSP

Create the implicitVariables.jsp file:



7. CREATE A NEW JSP

Create the implicitVariables.jsp file:



8. MODIFY THE FILE

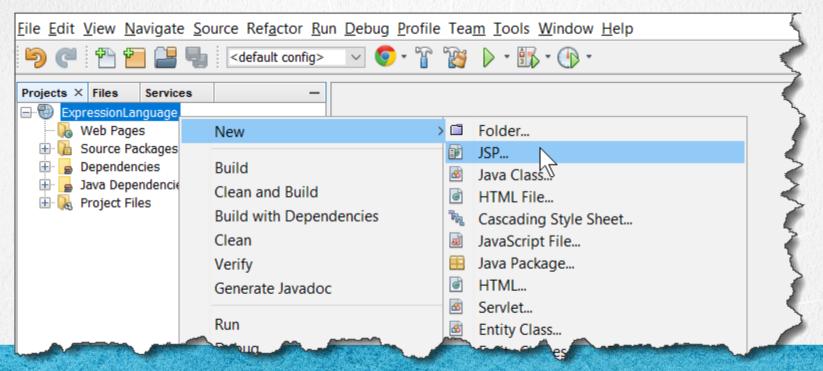
implicitVariables.jsp:

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```
<html>
   <head>
       <meta charset="UTF-8">
       <title>EL and Implicit Variables</title>
   </head>
   <body>
       <h1>EL and Implicit Variables</h1>
       <111>
           Application Name: ${pageContext.request.contextPath}
           Client Browser: ${ header["User-Agent"] }
           Session Id: ${cookie.JSESSIONID.value}
           >Web Server: ${pageContext.servletContext.serverInfo}
           Value for the User: ${param["user"]}
       \langle hr \rangle
       <hr>
       <a href="index.jsp">Return to index</a>
   </body>
</html>
```

9. CREATE A JSP

Create the index.jsp file:



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9. CREATE A JSP

Create the index.jsp file:

New JSP		×	
Steps	Name and Location		
Choose File Type Name and Location	File Name: index		
	Project: ExpressionLanguage		
	Location: Web Pages	~	
	Folder:	Browse	
	$\label{thm:constant} \textbf{Created File: } \boxed{\textbf{C:}Courses\\Servlets\\Lesson16\\ExpressionLanguage\\src\\main\\webapp\\index.jsp}$		
	Options: Options: Create as a JSP Segment		
	JSP Prile (Standard Syntax) ISP Document (XML Syntax)		
	Description: A JSP file using JSP standard syntax.		
	< Back Next > Finish C	Cancel Help	

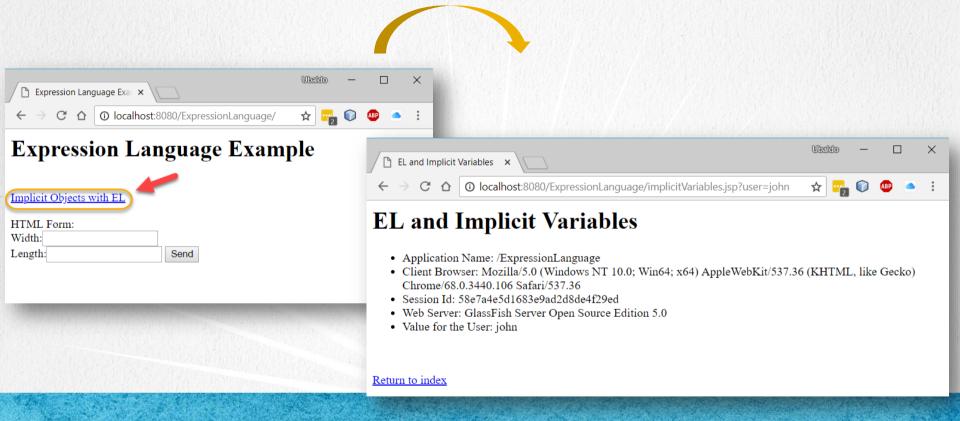
10. MODIFY THE FILE

index.jsp:

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```
<html>
    <head>
         <meta charset="UTF-8">
         <title>Expression Language Example</title>
    </head>
    <body>
         <h1>Expression Language Example</h1>
         \langle br \rangle
         <a href="implicitVariables.jsp?user=john">Implicit Objects with EL</a>
         <hr>>
         \langle hr \rangle
         <!--enter the JSP that accesses the JavaBean -->
         HTML Form:
         \langle br \rangle
         <form name="form1" action="javaBeanJsp.jsp">
             Width:<input type="text" name="width" />
             \langle br \rangle
             Length:<input type="text" name="length" />
             <input type="submit" value="Send" />
         </form>
    </body>
</html>
```

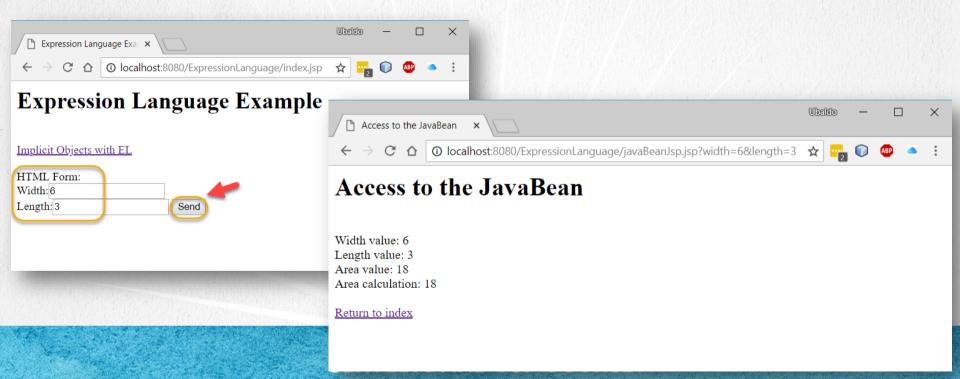
11. EXECUTE THE PROJECT



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11. EXECUTE THE PROJECT





EXERCISE CONCLUSION

With this exercise we have put into practice the use of Expression Language, and we also saw how we can combine the concept of JavaBeans and EL to more easily access the properties of our JavaBeans from the JSPs. This will greatly simplify the syntax of the JSPs.



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