

SERVLETS AND JSP COURSE

EXERCISE

CREATING A SERVLET



SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

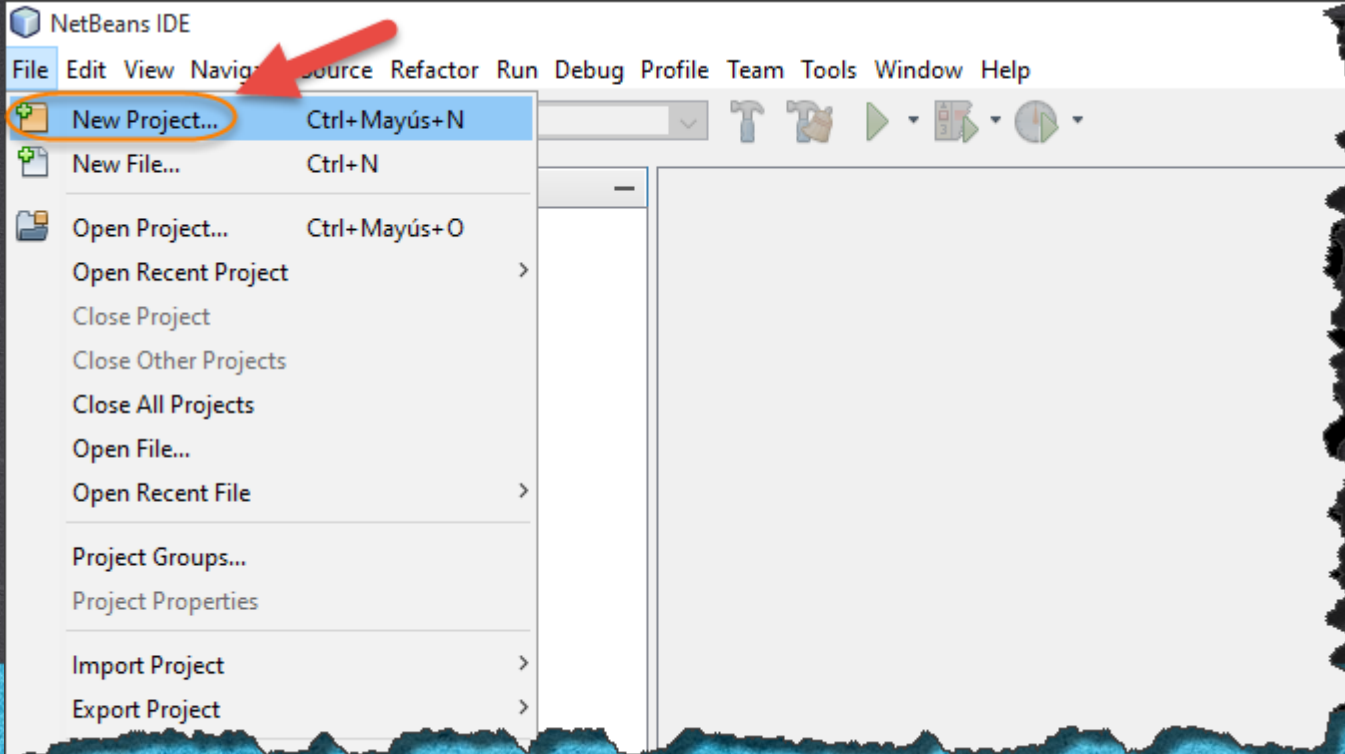
EXERCISE OBJECTIVE

Create an exercise to create a Servlet. At the end we should observe the following :



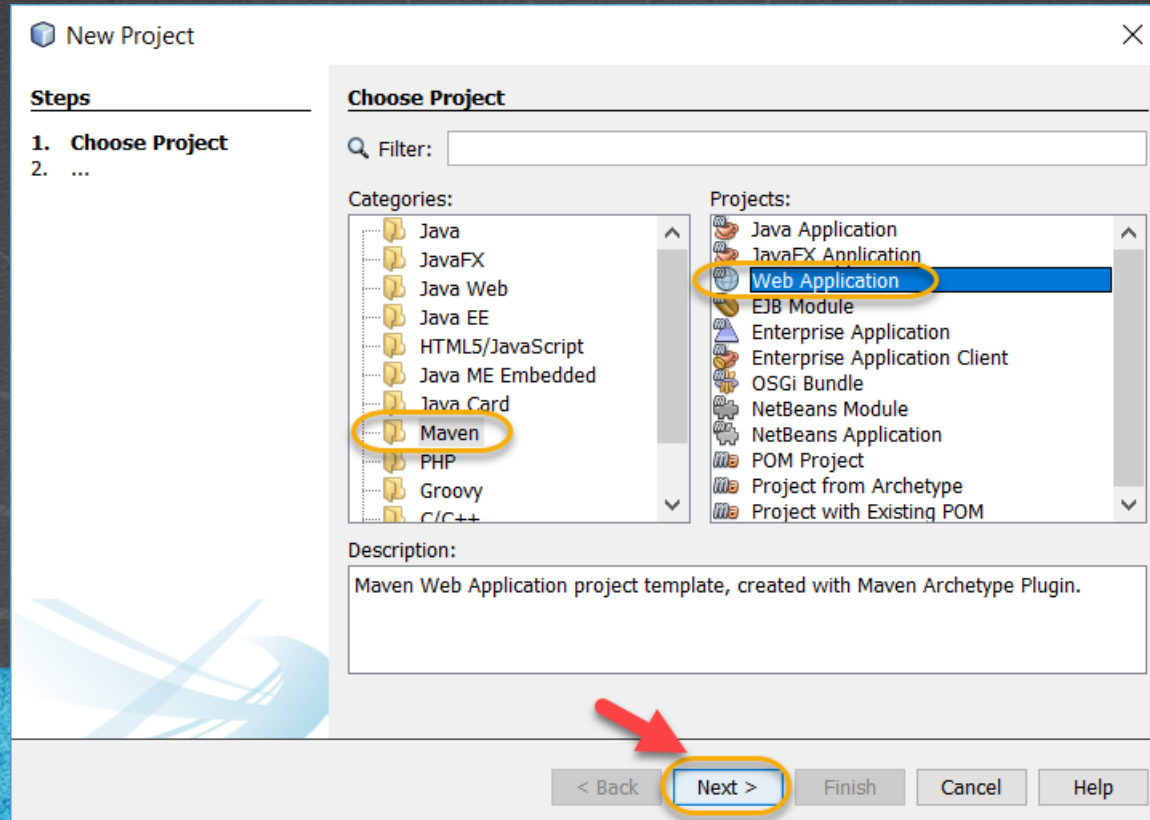
1. CREATE A NEW PROJECT

Create a new project:



1. CREATE A NEW PROJECT (CONT)

Create a new Project using Maven:



1. CREATE A NEW PROJECT(CONT)

Create a new project:

New Web Application [X]

Steps

1. Choose Project
- 2. Name and Location**
3. Settings

Name and Location

Project Name:

Project Location:

Project Folder:

Artifact Id:

Group Id:

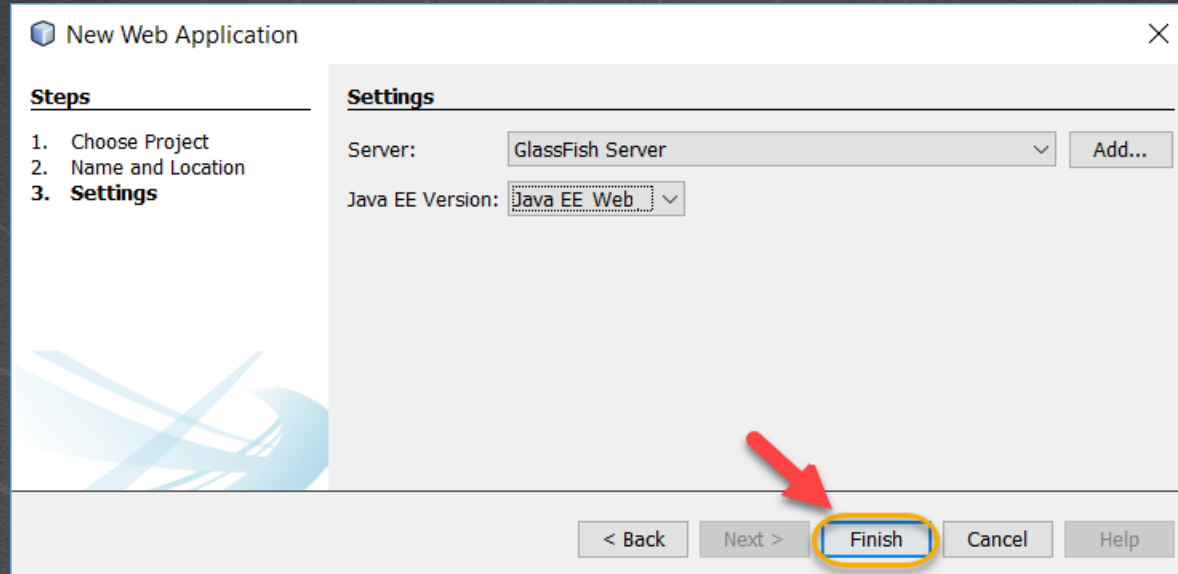
Version:

Package: (Optional)

< Back **Next >** Finish Cancel Help

1. CREATE A NEW PROJECT(CONT)

Create a new project:



New Web Application

Steps

1. Choose Project
2. Name and Location
3. **Settings**

Settings

Server: GlassFish Server Add...

Java EE Version: Java EE Web

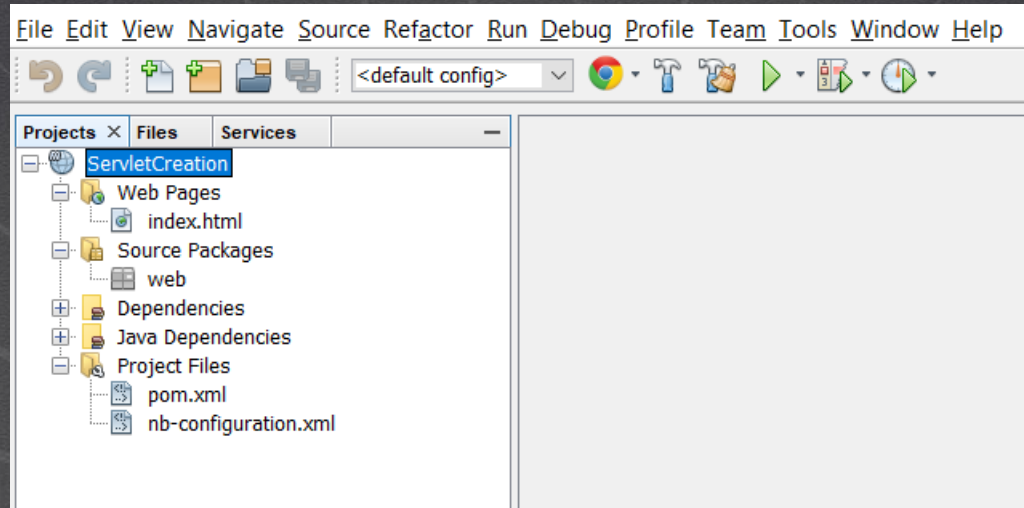
< Back Next > **Finish** Cancel Help

SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

1. CREATE A NEW PROJECT (CONT)

This is the basic structure of the project:

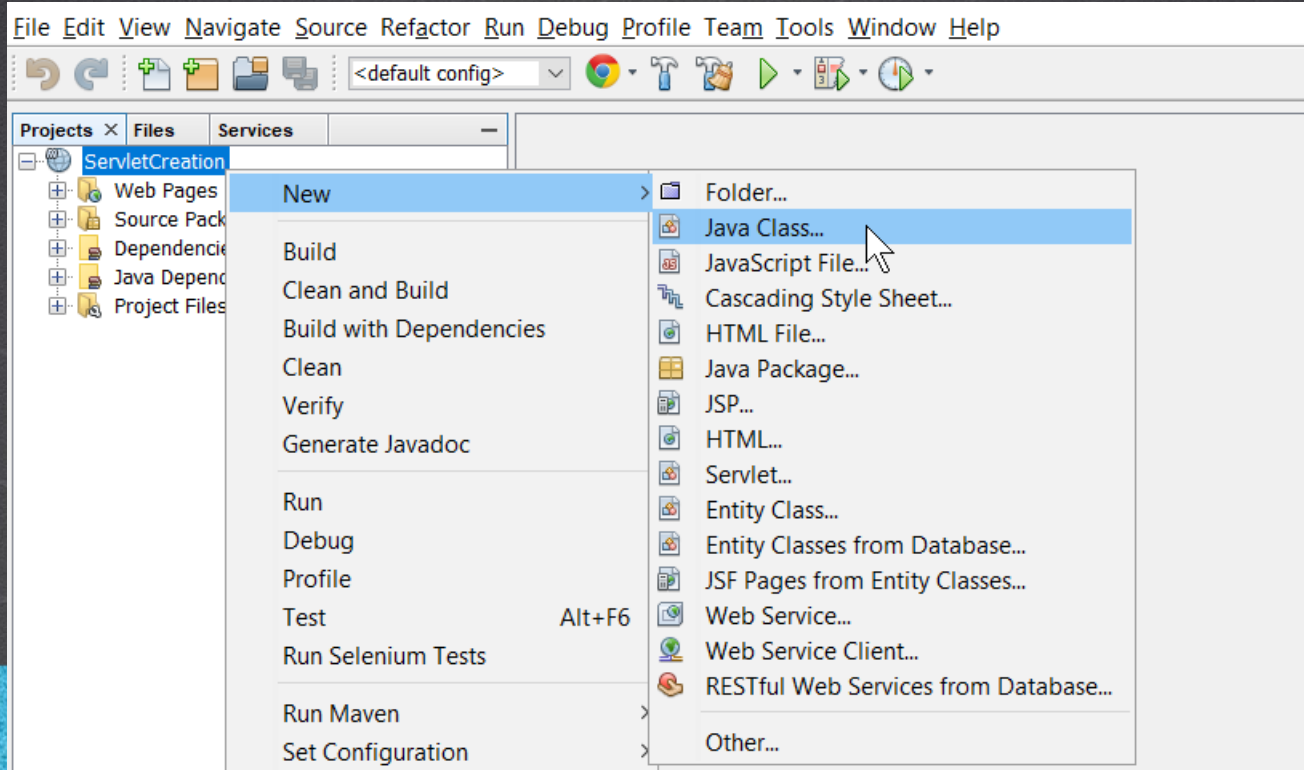


SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

2. CREATE A NEW CLASS

Create a new class.



2. CREATE A NEW CLASS

New Java Class

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

< Back Next > **Finish** Cancel Help

SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

4. MODIFY THE CODE

ServletExample.java:

```
package web;

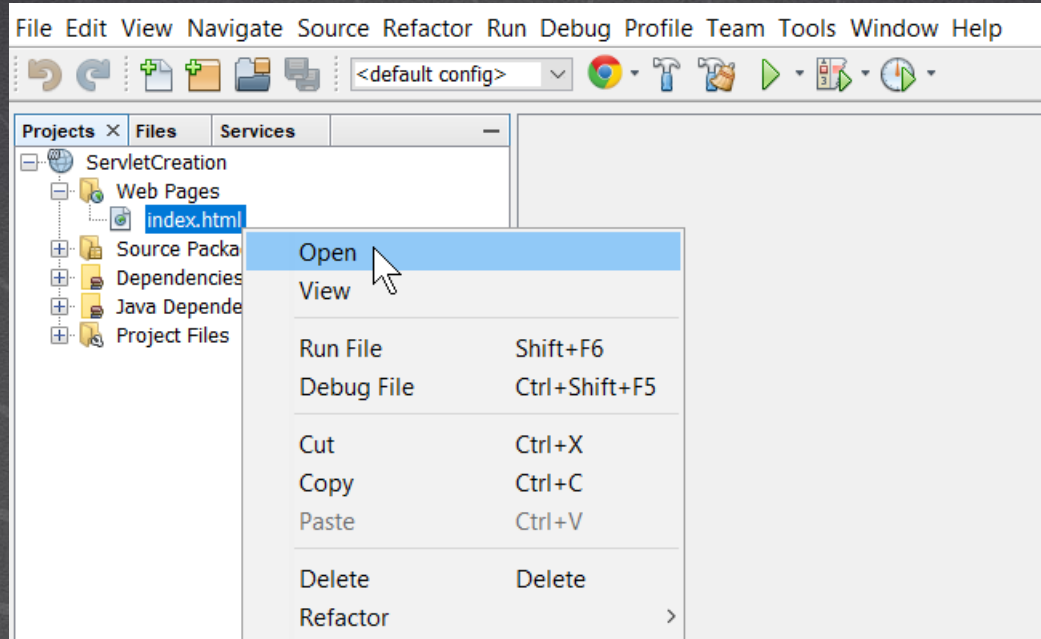
import java.io.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;

@WebServlet("/ServletExample")
public class ServletExample extends HttpServlet {

    @Override
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException {
        try (PrintWriter out = response.getWriter()) {
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet Example</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>Response from the Servlet</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

5. MODIFY THE FILE

Modify the index.html file:



SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

5. MODIFY THE CODE

index.html:

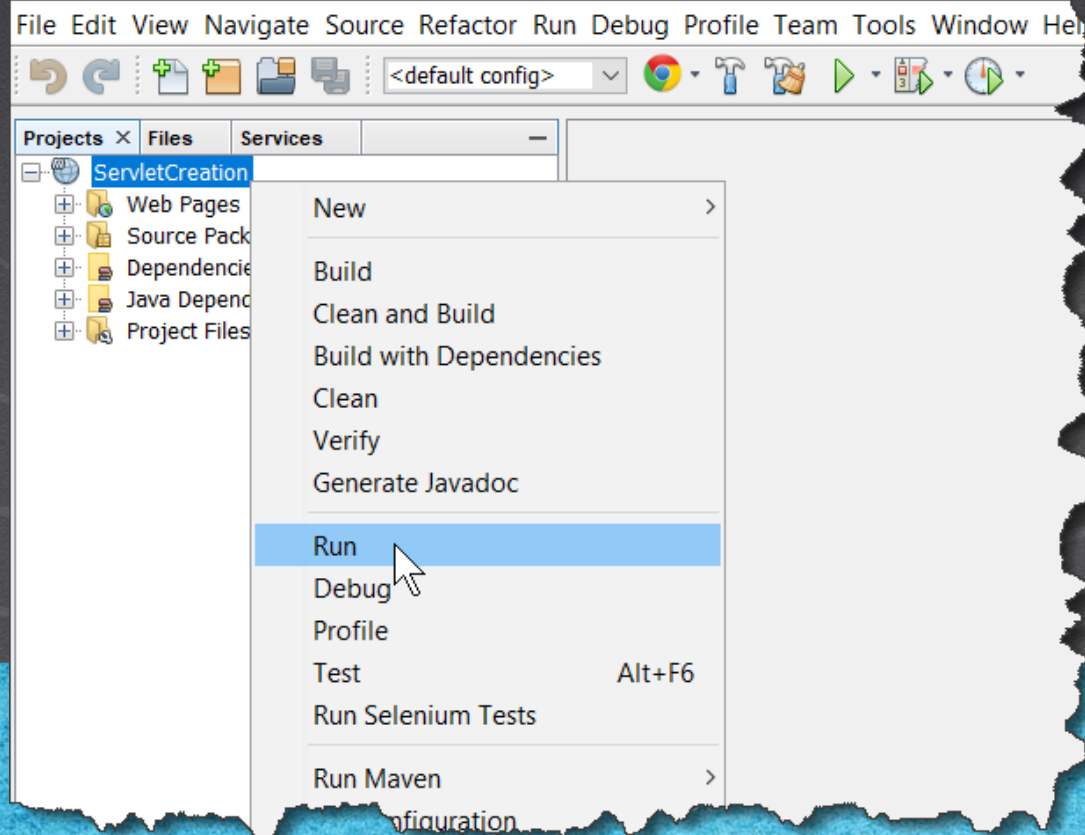
```
<!DOCTYPE html>
<html>
  <head>
    <title>Servlet Creation</title>
    <meta charset="UTF-8">
  </head>
  <body>
    <h1>Calling the servlet
    <a href="/ServletCreation/ServletExample">Servlet Example</a>
    </h1>
  </body>
</html>
```

SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

6. EXECUTE THE PROJECT

Execute the Project:



6. EXECUTE THE PROJECT (CONT)

The result is as follows:



6. EXECUTE THE PROJECT (CONT)

The result is as follows:



6. EXECUTE THE PROJECT (CONT)

This is the HTML code generated by the Servlet :

A screenshot of a web browser window. The address bar shows 'view-source:localhost:8080/ServletCreation/'. The page content is HTML source code, displayed with line numbers 1 through 13 on the left. The code includes a DOCTYPE declaration, an html tag, a head section with a title 'Servlet Creation' and a meta charset='UTF-8', and a body section with an h1 'Calling the servlet' and an a href='/ServletCreation/ServletExample' link labeled 'Servlet Example'.

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Servlet Creation</title>
5     <meta charset="UTF-8">
6   </head>
7   <body>
8     <h1>Calling the servlet
9     <a href="/ServletCreation/ServletExample">Servlet Example</a>
10    </h1>
11  </body>
12 </html>
13
```

SERVLETS AND JSP COURSE

www.globalmentoring.com.mx

EXERCISE CONCLUSION

- With this exercise we have created a Servlet step by step.
- It is not necessary that all the code is clear at this time, as we go forward we will work and deepen in each of the elements of this example.
- However, we can already understand how to create this type of Web components.

ONLINE COURSE

SERVLETS & JSP' S

By: Eng. Ubaldo Acosta



SERVLETS AND JSP COURSE

www.globalmentoring.com.mx