HTTP SESSION

By the expert: Ubaldo Acosta

Eng. Ubaldo Acosta

Global Mentoring

JAVA UNIVERSITY

OBJECTIVE OF THE EXERCISE

Create a Web project to implement the HttpSession management. At the end we should observe the following:
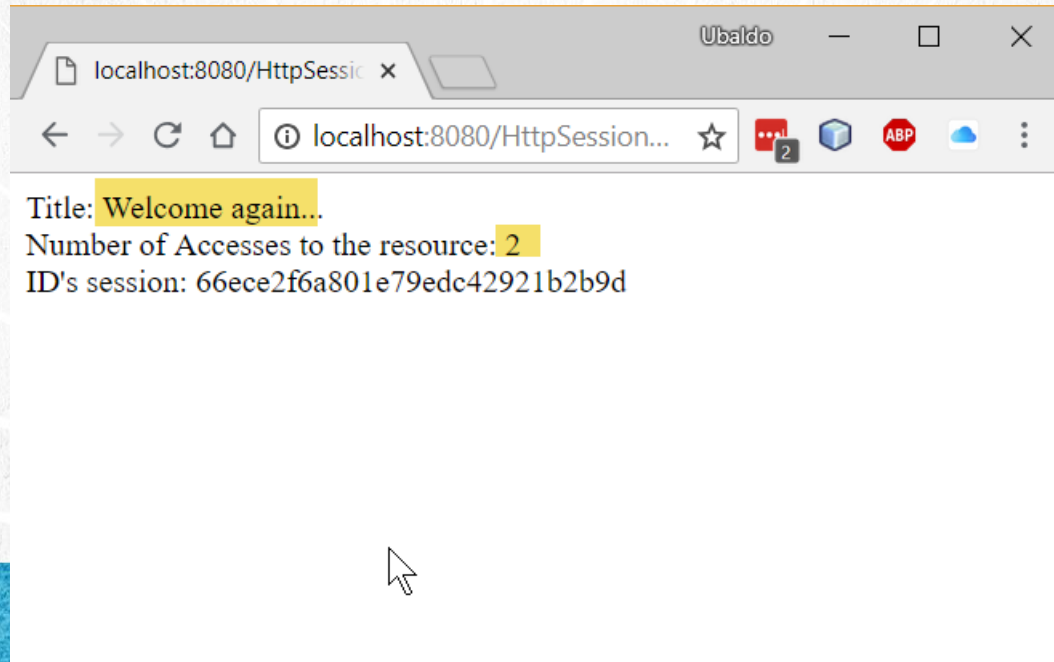
1. CREATE A NEW PROJECT

Create a new web Project with Maven, as follows:
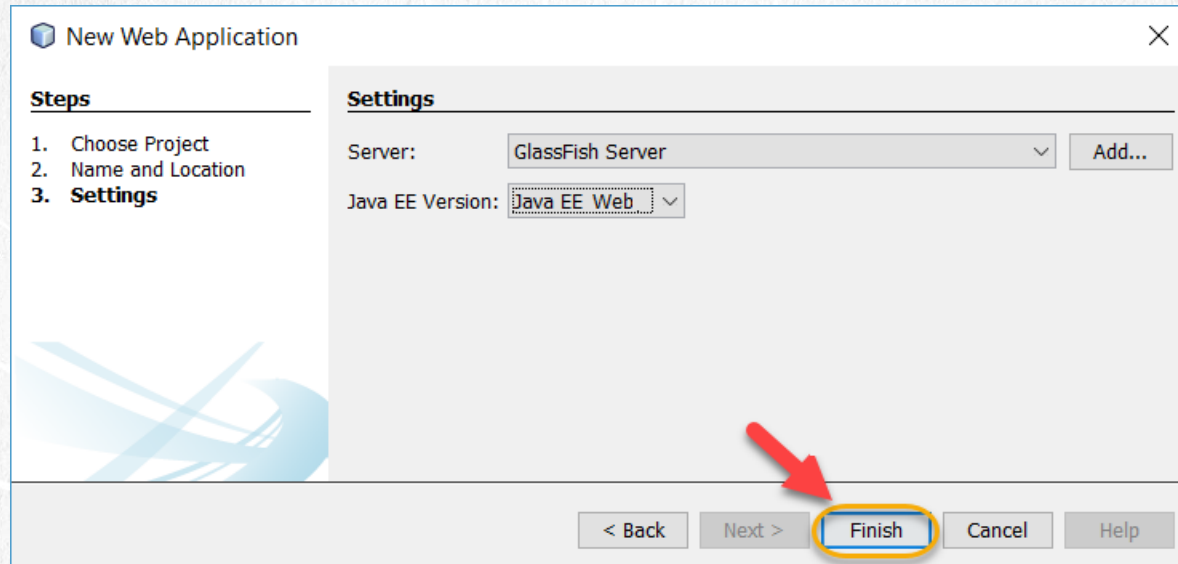
1. CREATE A NEW PROJECT (CONT)

Create a new project:

2. CREATE A NEW CLASS

Create a new class that will be a Servlet:

3. MODIFY THE FILE

HttpSessionServlet.java:

```java
package web;

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

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

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        HttpSession session = request.getSession();
        String title = null;

        //We ask for the attribute, and verify if it exists
        Integer visitCounter = (Integer) session.getAttribute("visitCounter");
```

3. MODIFY THE FILE

HttpSessionServlet.java:

```java
        //If it is equal to null, it means that it is the first
        //time that we access the resource
        if (visitCounter == null) {
            visitCounter = 1;
            title = "Welcome for the first time...";
        } else {
            //if it is different from null, we increase the counter
            title = "Welcome again...";
            visitCounter += 1;
        }

        //In any case, we add the value of the counter
        //to the session
        session.setAttribute("visitCounter", visitCounter);

        //We show the values in the client
        PrintWriter out = response.getWriter();
        out.println("Title: " + title);
        out.println("<br>");
        out.println("Number of Accesses to the resource: " + visitCounter);
        out.println("<br>");
        out.println("ID's session: " + session.getId());
    }
}
```

4. MODIFY THE FILE
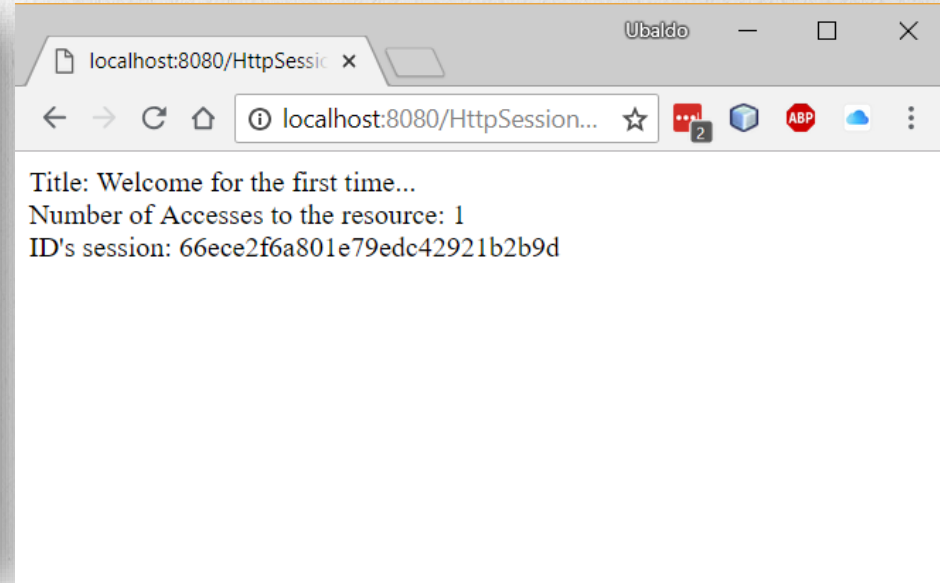
Modify the index.html file:
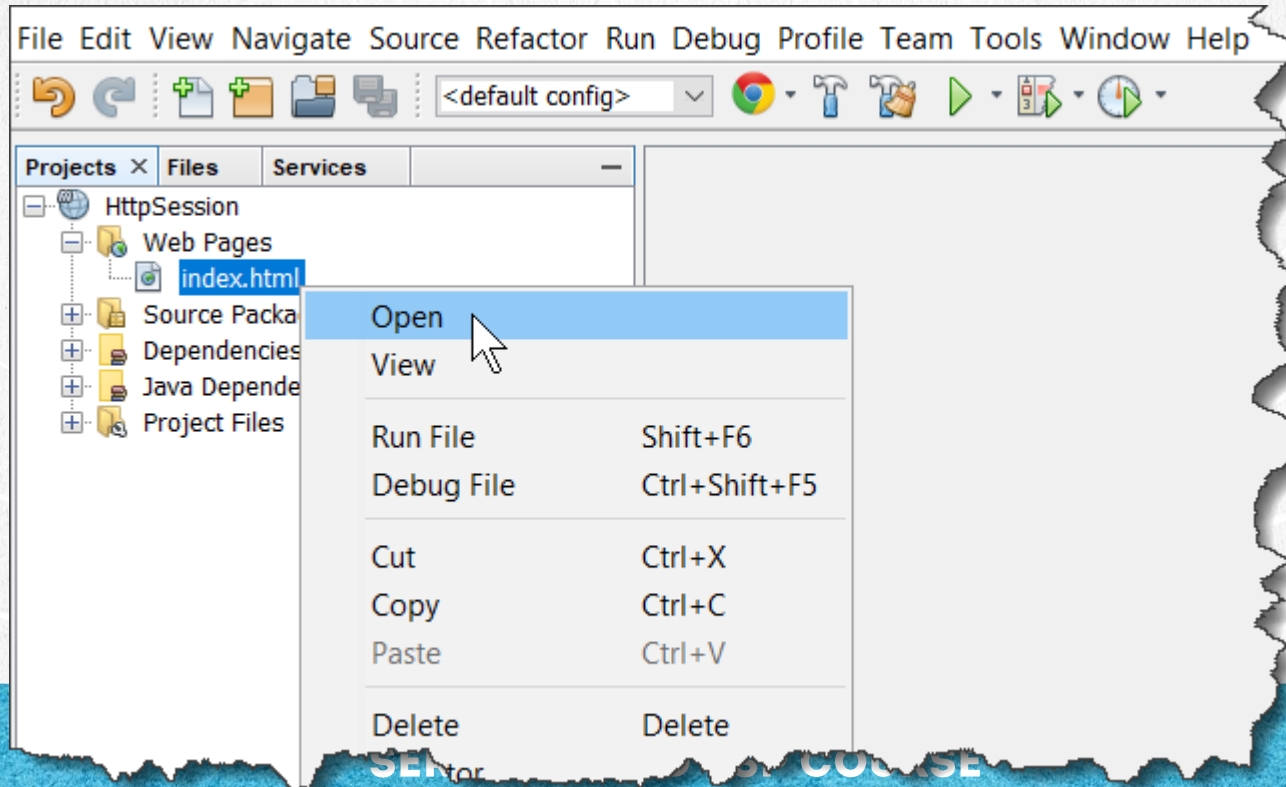
4. MODIFY THE FILE

index.html:

```html
<!DOCTYPE html>
<html>
    <head>
        <meta charset="UTF-8">
        <title>HttpSession Example</title>
    </head>
    <body>
        <h1>HttpSession Example</h1>
        <br>
        <a href="/HttpSession/HttpSessionServlet">
            Link to the HttpSession Servlet
        </a>
    </body>
</html>
```
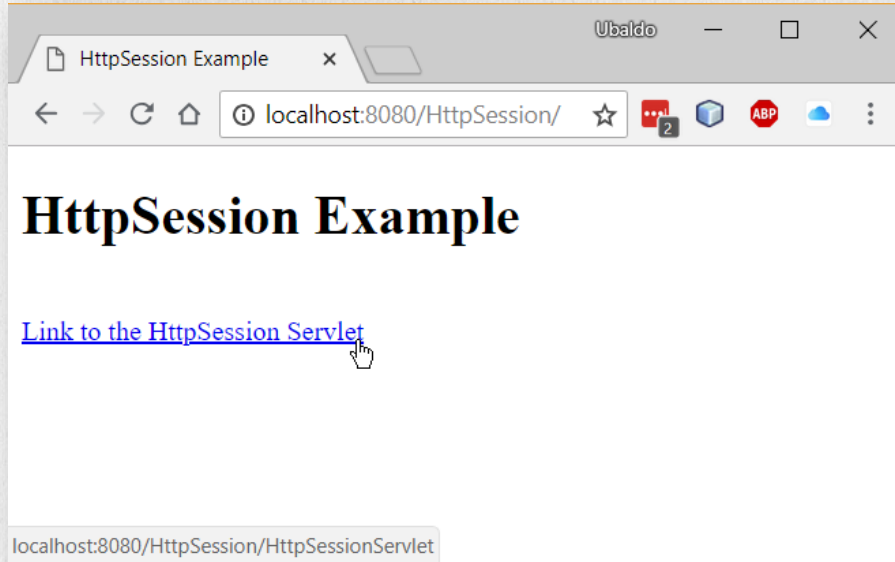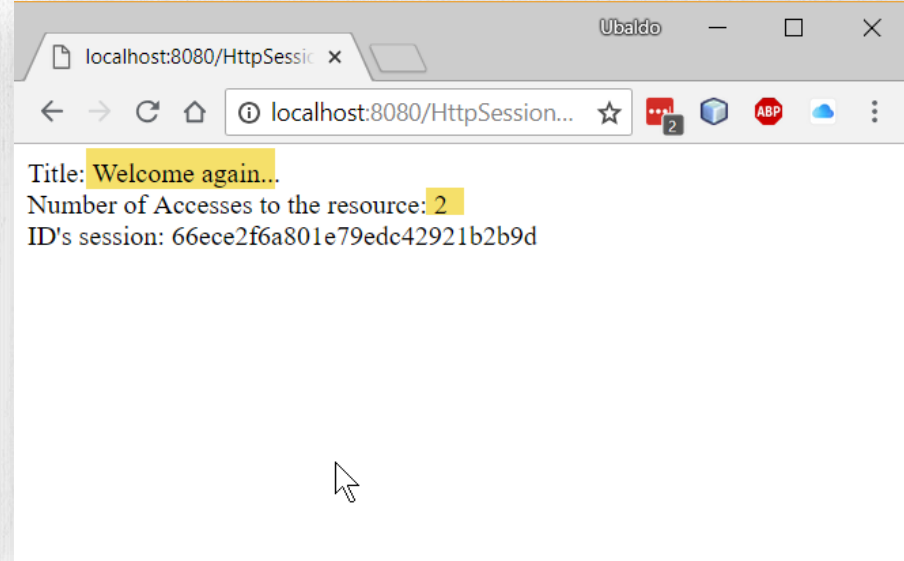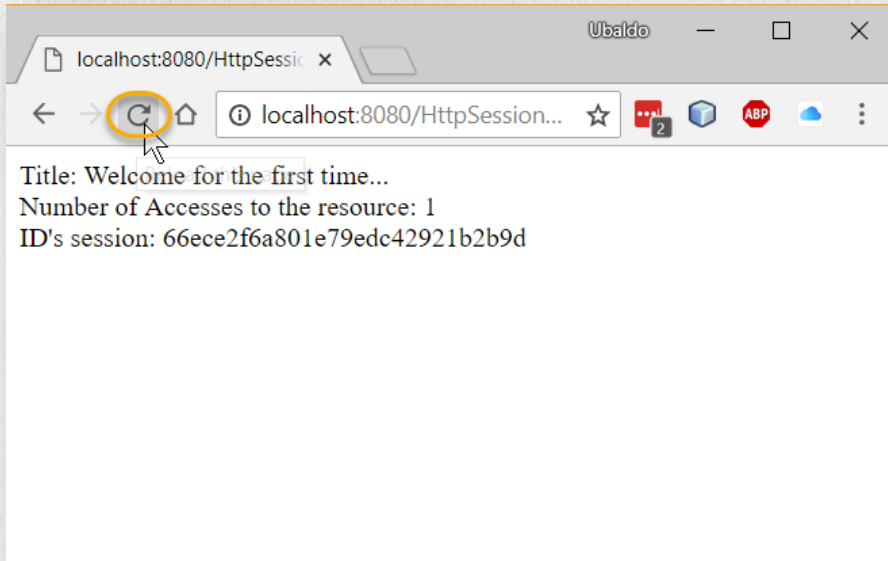
5. EXECUTE THE APPLICATION

HttpSession Example

Link to the HttpSession Servlet

localhost:8080/HttpSession/HttpSessionServlet

Title: Welcome for the first time...
Number of Accesses to the resource: 1
ID's session: 66ece2f6a801e79edc42921b2b9d

5. EXECUTE THE APPLICATION

Title: Welcome for the first time...
Number of Accesses to the resource: 1
ID's session: 66ece2f6a801e79edc42921b2b9d

Title: Welcome again...
Number of Accesses to the resource: 2
ID's session: 66ece2f6a801e79edc42921b2b9d

EXERCISE CONCLUSION

With this exercise we have implemented the HttpSession API, which is one of the objects that we will use for a more simplified handling of the sessions in our Web applications, instead of working directly with the Cookie object.

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