

SERVLETS AND JSP COURSE

EXERICSE

COOKIES HANDLING

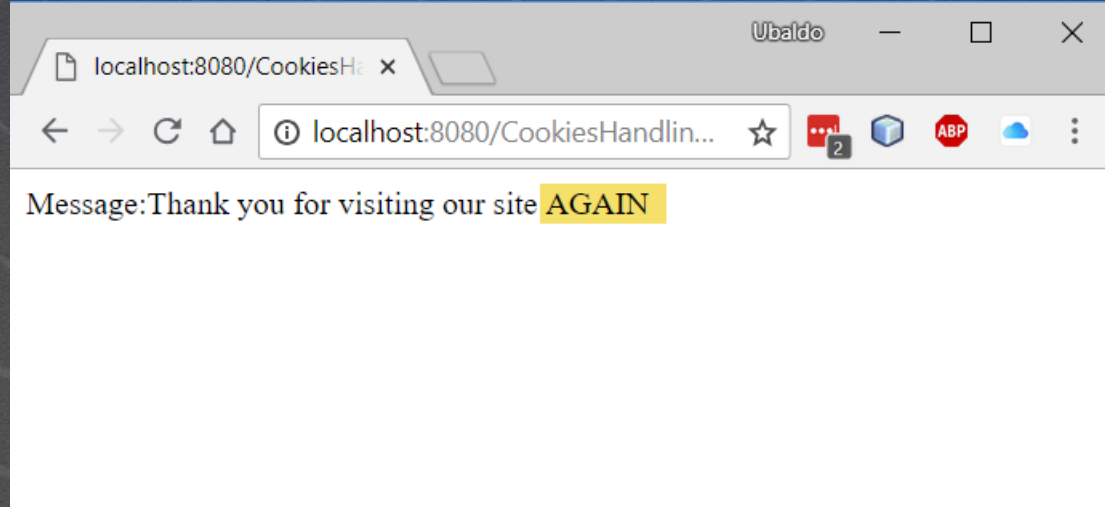


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EXERCISE OBJECTIVE

Create a project to implement the management of Cookies with Servlets. At the end we should observe the following:



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1. CREATE A NEW PROJECT

Create a new project:

New Web Application

Steps

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

Name and Location

Project Name: CookiesHandling

Project Location: C:\Courses\Servlets\Lesson09 Browse...

Project Folder: C:\Courses\Servlets\Lesson09\CookiesHandling

Artifact Id: CookiesHandling

Group Id: web

Version: 1

Package: (Optional)

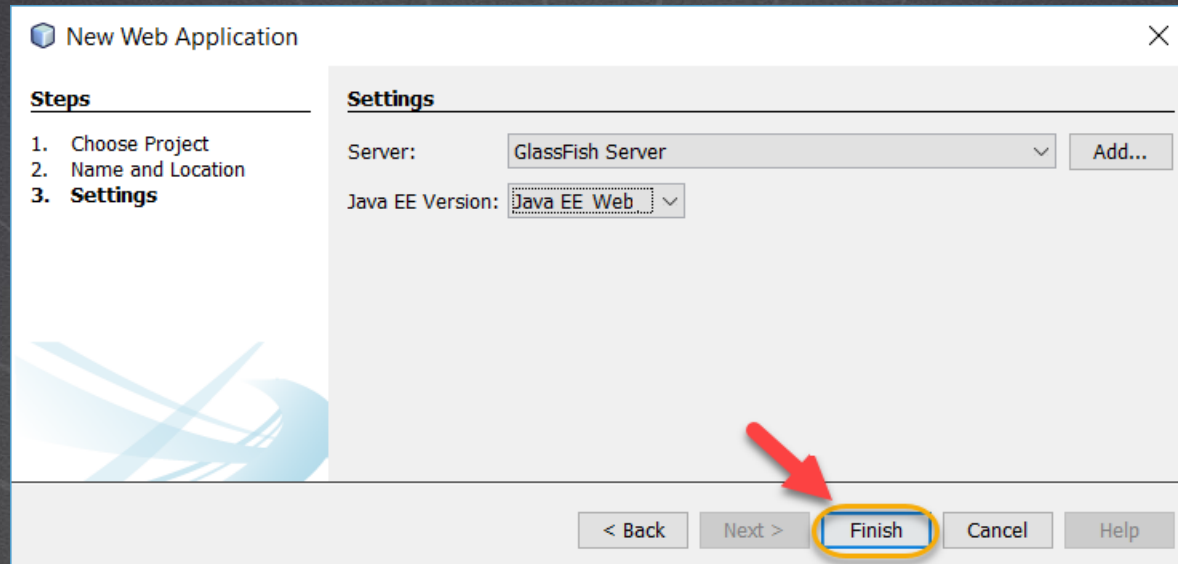
< Back **Next >** Finish Cancel Help

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1. CREATE A NEW PROJECT

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

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2. CREATE A NEW CLASS

Create a new class that will be a Servlet:

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

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3. MODIFY THE CODE

[CookiesServlet.java:](#)

[Click to download](#)

```
package web;

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

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

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        //We assume that the user is visiting our site for the first time
        boolean newUser = true;

        //We obtain all cookies
        Cookie[] cookies = request.getCookies();
```

3. MODIFY THE CODE

[CookiesServlet.java:](#)

[Click to download](#)

```
//We look for if a previously created cookie already exists
if (cookies != null) {
    for (Cookie c : cookies) {
        if (c.getName().equals("recurrentVisitor")
            && c.getValue().equals("yes")) {
            //In case there is already a cookie indicating
            //that a previously registered user already exists
            //we put the flag in false and we left the loop
            newUser = false;
            break;
        }
    } //end of for
} //end of if

//We check if the user is a new visitor
String message = null;
if (newUser) {
    //En caso de ser un usuario nuevo creamos el objeto Cookie
    Cookie cookieVisitor = new Cookie("recurrentVisitor", "yes");
    //Agregamos la cookie en la respuesta
    response.addCookie(cookieVisitor);
    message = "Thank you for visiting our site";
} else {
    message = "Thank you for visiting our site AGAIN";
}
```


3. MODIFY THE CODE

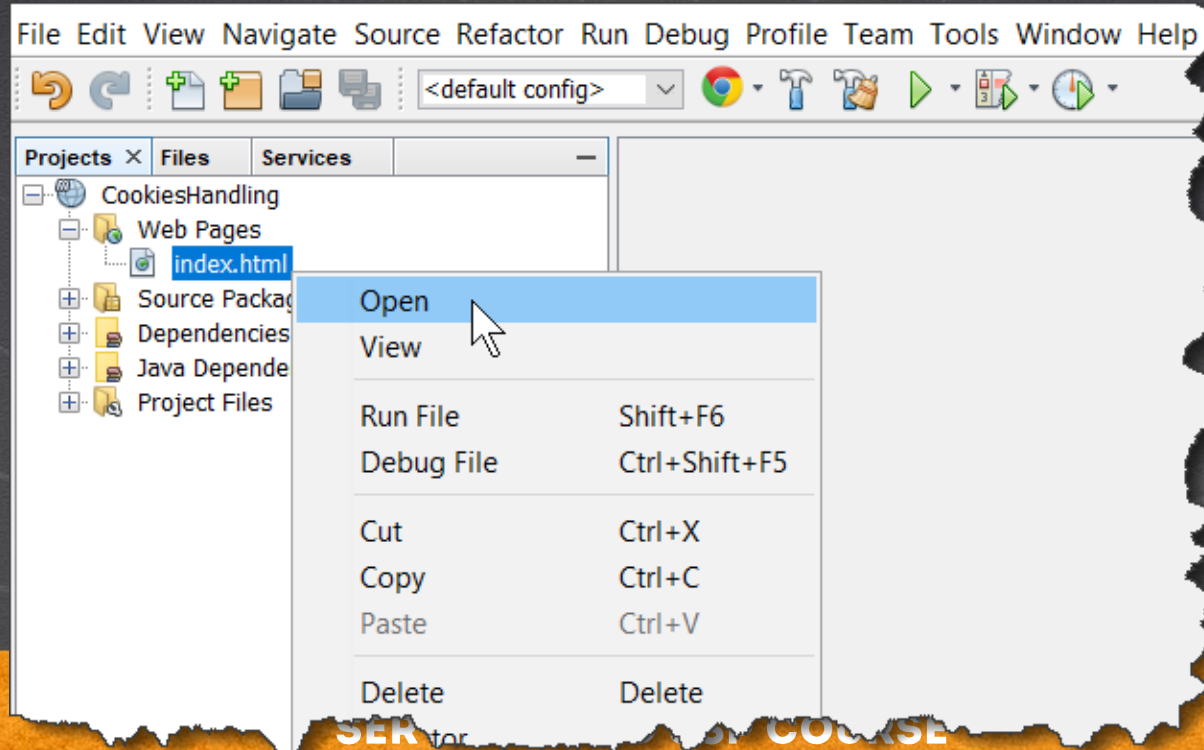
[CookiesServlet.java:](#)

[Click to download](#)

```
//write the output
response.setContentType("text/html");
PrintWriter out = response.getWriter();
//We omit HTML code to simplify the code
out.println("Message:" + message);
}
}
```


4. CREATE A NEW CLASS

Create a new class that will be a Servlet:



5. MODIFY THE CODE

[index.html](#):

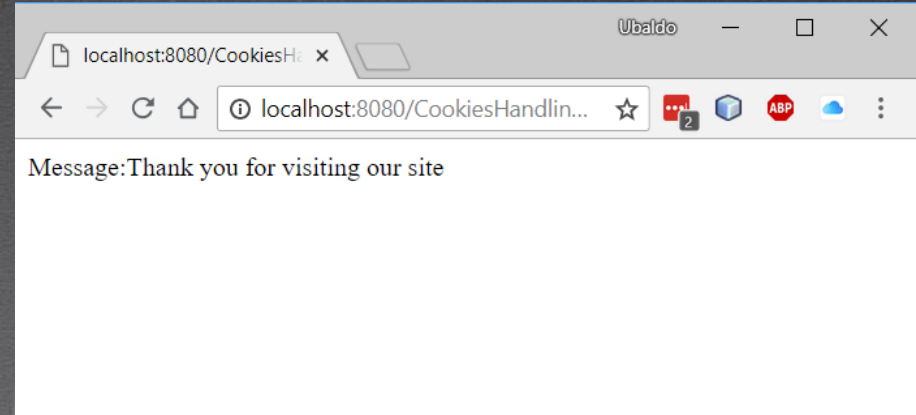
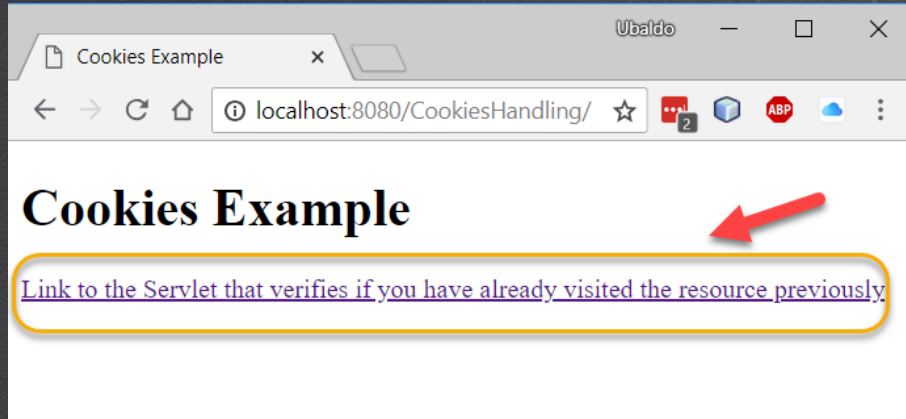
Click to download

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Cookies Example</title>
  </head>
  <body>
    <h1>Cookies Example</h1>
    <a href="/CookiesHandling/CookiesServlet">
      Link to the Servlet that verifies if you have already visited the
      resource previously
    </a>
  </body>
</html>
```

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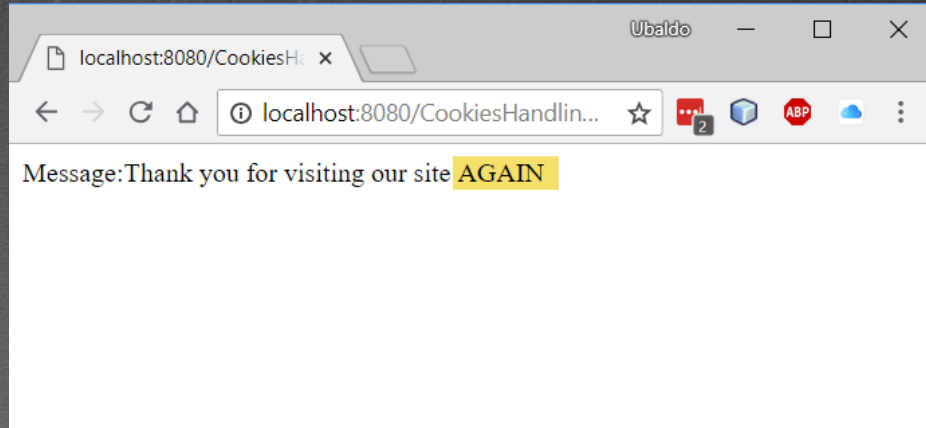
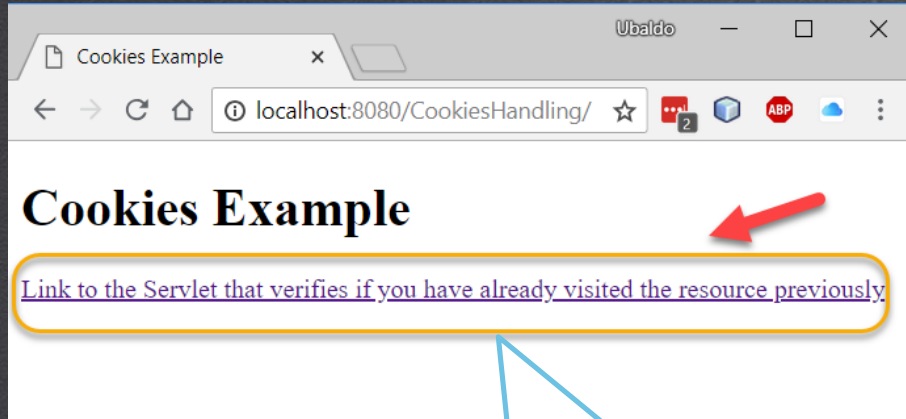
6. EXECUTE THE PROJECT



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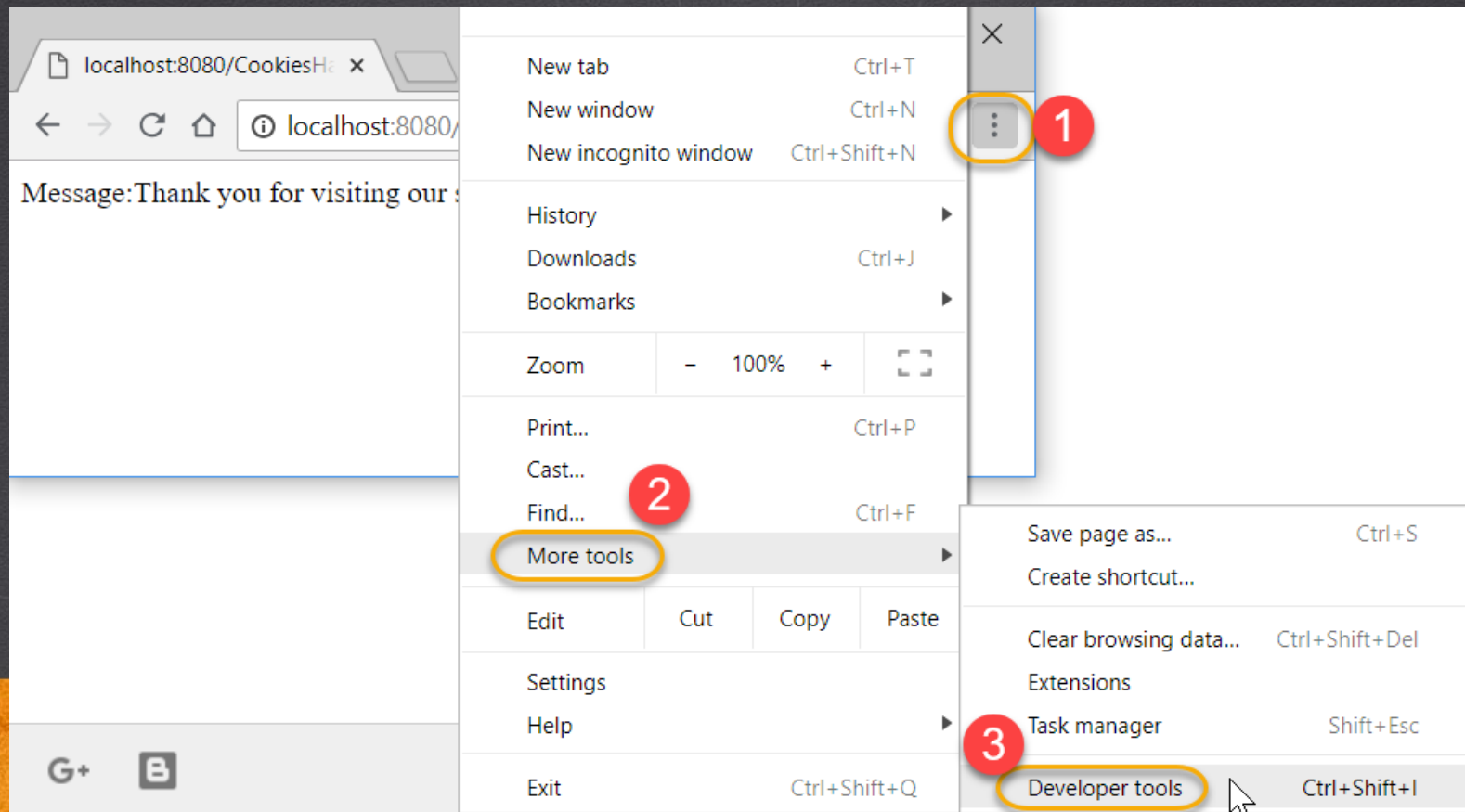
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6. EXECUTE THE PROJECT



We return to the home page and click again on the same link to show us the message that we are returning to the site.

7. VERIFY THE COOKIES



7. VERIFY THE COOKIES

localhost:8080/CookiesHandling/CookiesServlet

Message: Thank you for visiting our site AGAIN

Application

- Manifest
- Service Workers
- Clear storage

Storage

- Local Storage
- Session Storage
- IndexedDB
- Web SQL
- Cookies
 - http://localhost:8080

Cache

- Cache Storage
- Application Cache

Frames

Application

Name	Value	Do...	P...	Ex...	Size	H...	Se...	Sa...
JSESSIONID	30f3bc18f7a11bb4c35d57...	loca...	/	19...	38	✓		
recurrentVisitor	yes	loca...	/...	19...	19			
treeForm_tree-hi		loca...	/	19...	16			
visitanteRecurr...	si	loca...	/...	19...	21			

EXERCISE CONCLUSION

- With this exercise we have seen the use of cookies, from the creation and reading of them, and we have used them to check if a user had already entered our website.
- This is one of the possible uses of Cookies, however there are many more uses that we can give, as they allow us to save any chain we want.



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