

SERVLETS AND JSP COURSE

EXERCISE

RESPONSE HEADERS

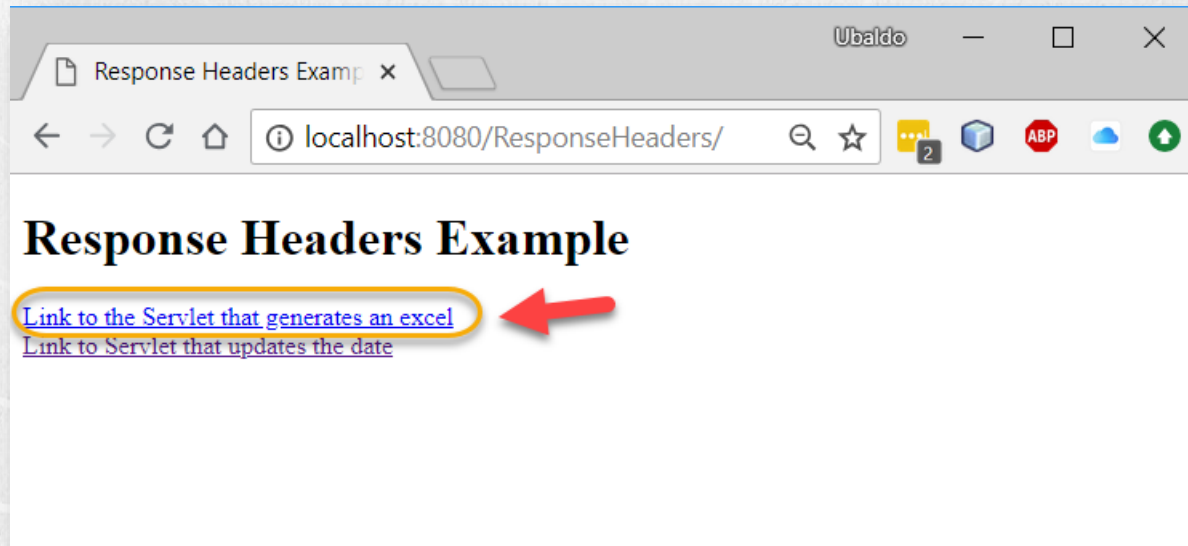


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EXERCISE OBJECTIVE

Create a program to practice the response headers 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: ResponseHeaders

Project Location: C:\Courses\Servlets\Lesson08 Browse...

Project Folder: C:\Courses\Servlets\Lesson08\ResponseHeaders

Artifact Id: ResponseHeaders

Group Id: web

Version: 1

Package: (Optional)

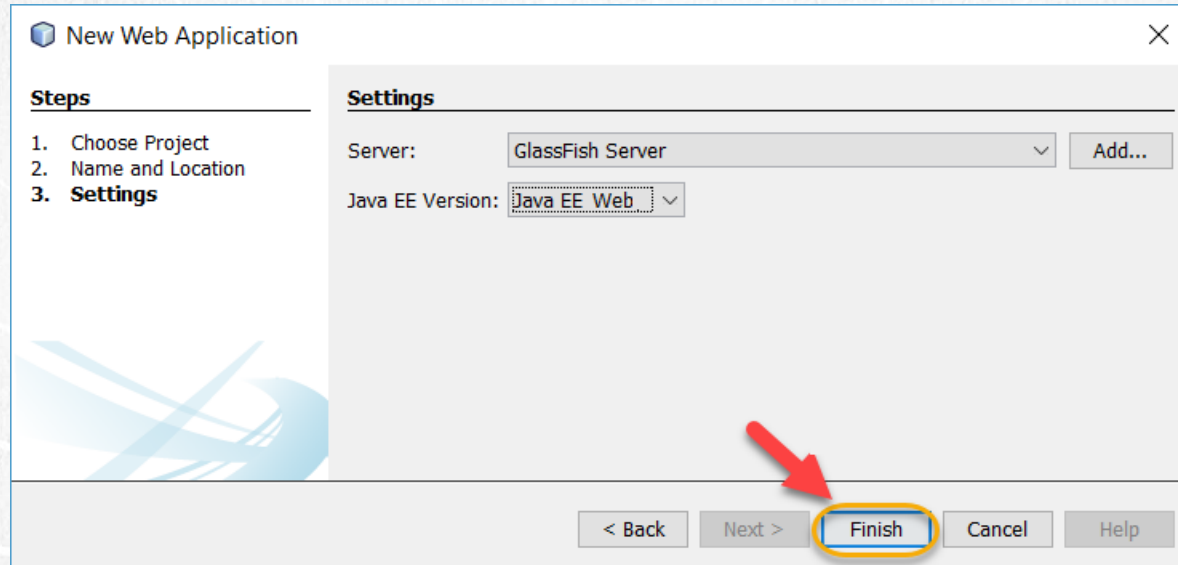
< Back **Next >** Finish Cancel Help

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PASO 1. CREACIÓN DEL PROYECTO

Vamos a crear el proyecto:



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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 COURSE

DateServlet.java:

```
package web;

import java.io.*;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;

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

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        try (PrintWriter out = response.getWriter()) {
            response.setContentType("text/html;charset=UTF-8");
            response.setHeader("refresh", "1");//given in seconds
            //We obtain the current date and apply a format
            Date fecha = new Date();
```

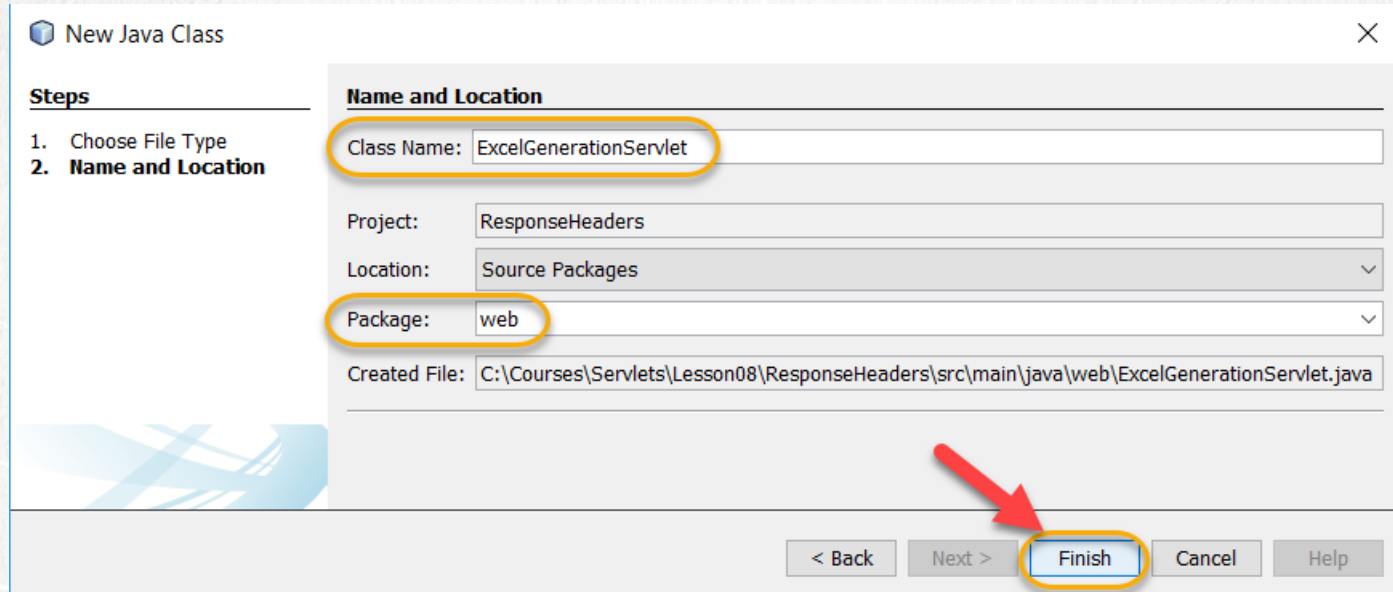
3. MODIFY THE COURSE

DateServlet.java:

```
//API to use the SimpleDateFormat class
//https://docs.oracle.com/javase/8/docs/api/java/text/SimpleDateFormat.html
//SimpleDateFormat formatter = new SimpleDateFormat("dd 'of' MMMM 'of' yyyy 'at' HH:mm:ss");
SimpleDateFormat formatter = new SimpleDateFormat("'Updated time' HH:mm:ss");
String dateWithFormat = formatter.format(fecha);
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet FechaServlet</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1> " + dateWithFormat + "</h1>");
out.println("</body>");
out.println("</html>");
    }
}
```


4. CREATE A NEW CLASS

Create a new class called ExcelGenerationServlet.java:



New Java Class

Steps

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

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

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5. MODIFY THE CODE

ExcelGenerationServlet.java:

```
package web;

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

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

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

        try (PrintWriter out = response.getWriter()) {
            //We specify the type of the response document (MIME)
            response.setContentType("application/vnd.ms-excel");
            response.setHeader("Content-Disposition", "attachment; filename=excelExample.xls");
            //For a more professional use of excel use: https://poi.apache.org/
            response.setHeader("Pragma", "no-cache");
            response.setHeader("Cache-Control", "no-store");
            response.setDateHeader("Expires", -1);
        }
    }
}
```

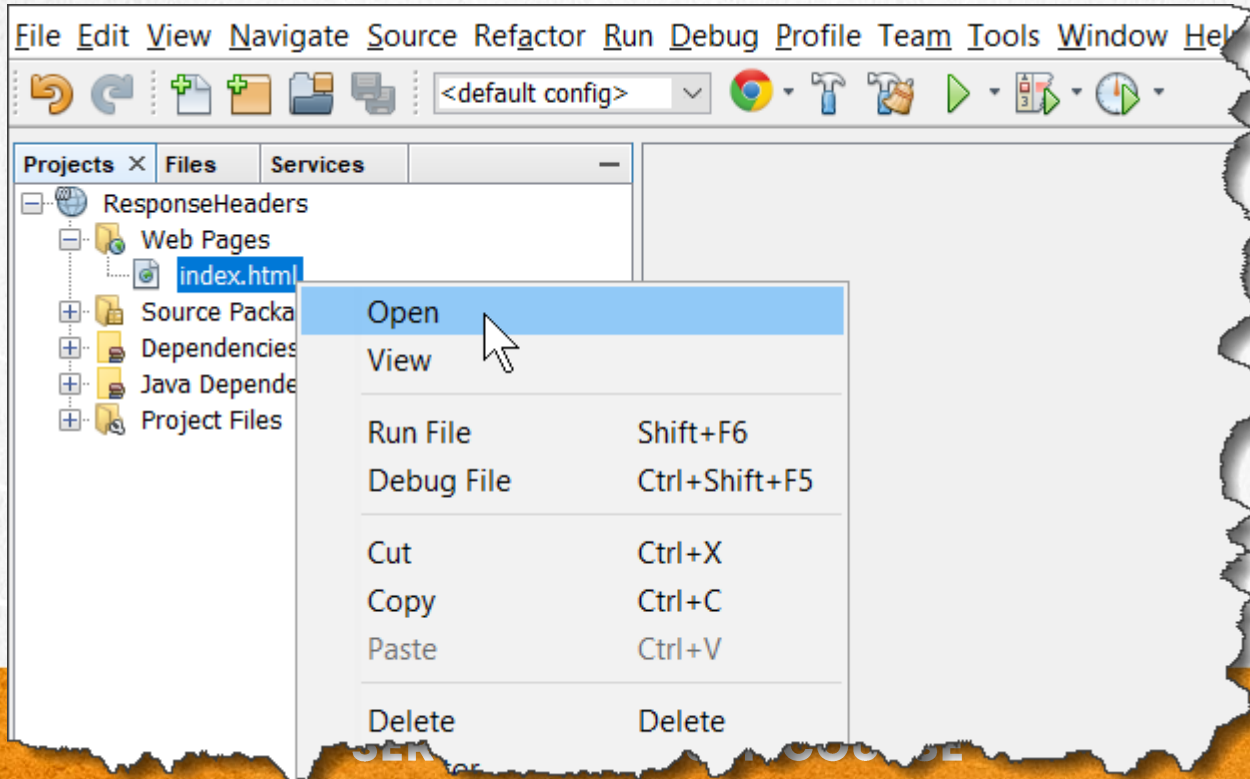
5. MODIFY THE CODE

ExcelGenerationServlet.java:

```
//We display the content in an excel
//simply modifying the contentType
out.println("\tValues");
out.println("\t1");
out.println("\t2");
out.println("Total\t=SUMA (B2:B3) ");
    }
}
```

6. MODIFY A FILE

Modify the index.html file:



6. MODIFY THE FILE

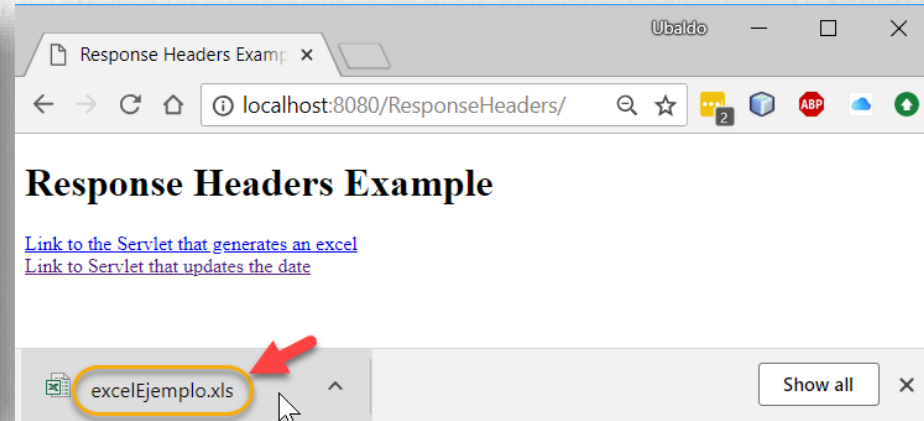
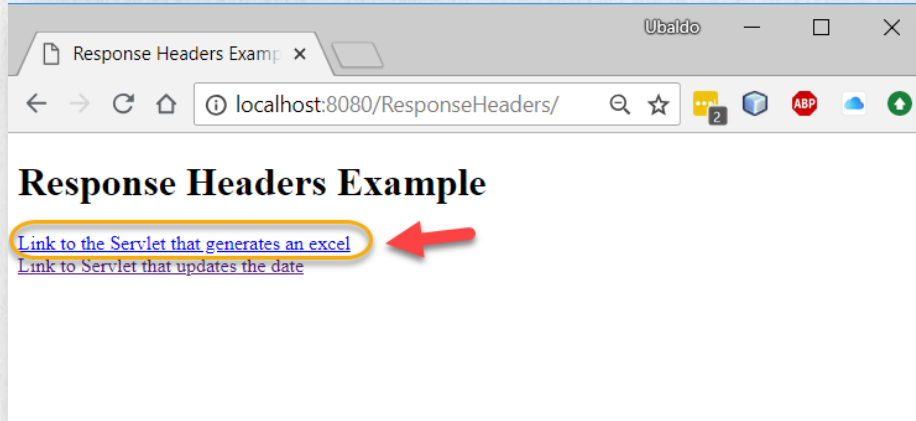
index.java:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Response Headers Example</title>
  </head>
  <body>
    <h1>Response Headers Example</h1>
    <a href="/ResponseHeaders/ExcelGenerationServlet">Link to the Servlet that generates an excel</a>
    <br>
    <a href="/ResponseHeaders/DateServlet">Link to Servlet that updates the date</a>
  </body>
</html>
```

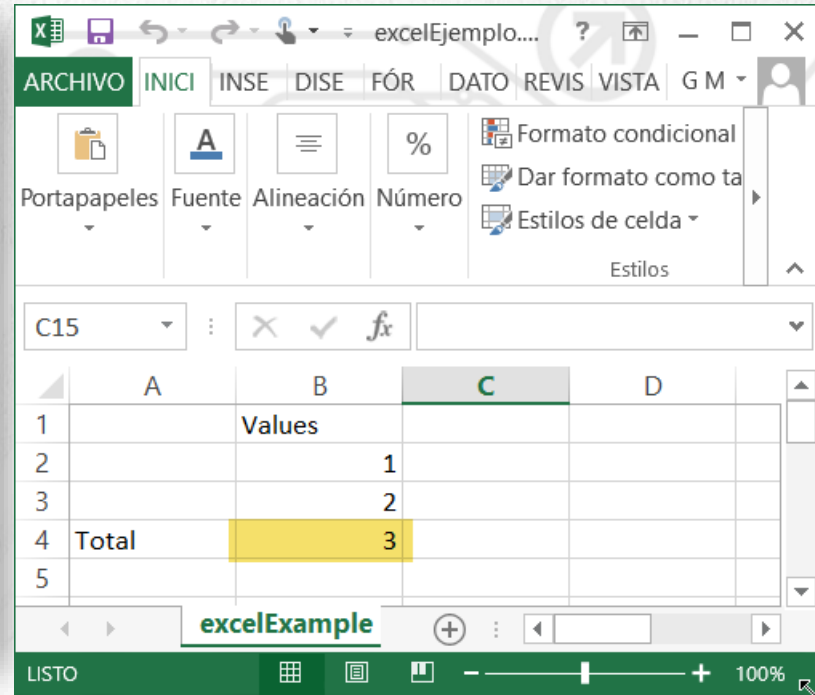
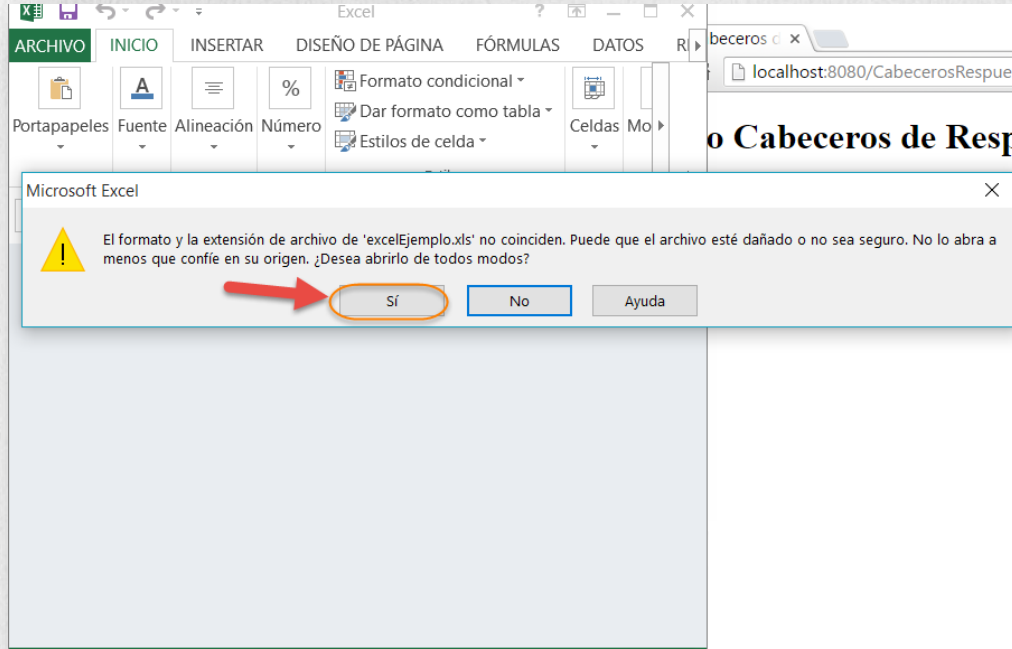
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7. EXECUTE THE PROJECT



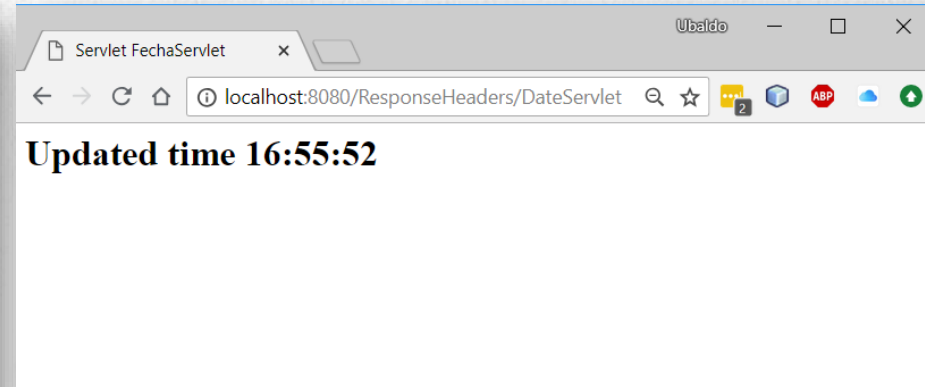
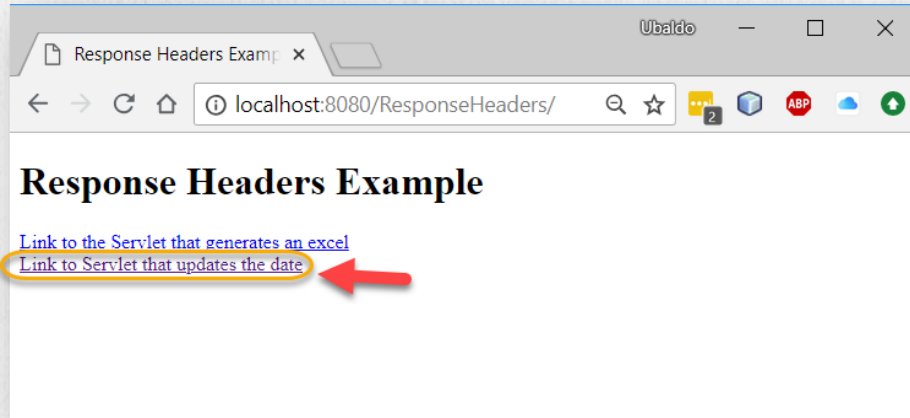
7. EXECUTE PROJECT



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7. EXECUTE THE PROJECT



EXERCISE CONCLUSION

As this exercise we have seen how to use some response headers with the Servlets API.

There are many uses, but with the examples we saw we can understand in more detail what they are for and how to use several of them according to the requirement that we have to develop.



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CURSO ONLINE

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