

# SERVLETS AND JSP COURSE

## EXERCISE

### REQUEST HEADERS

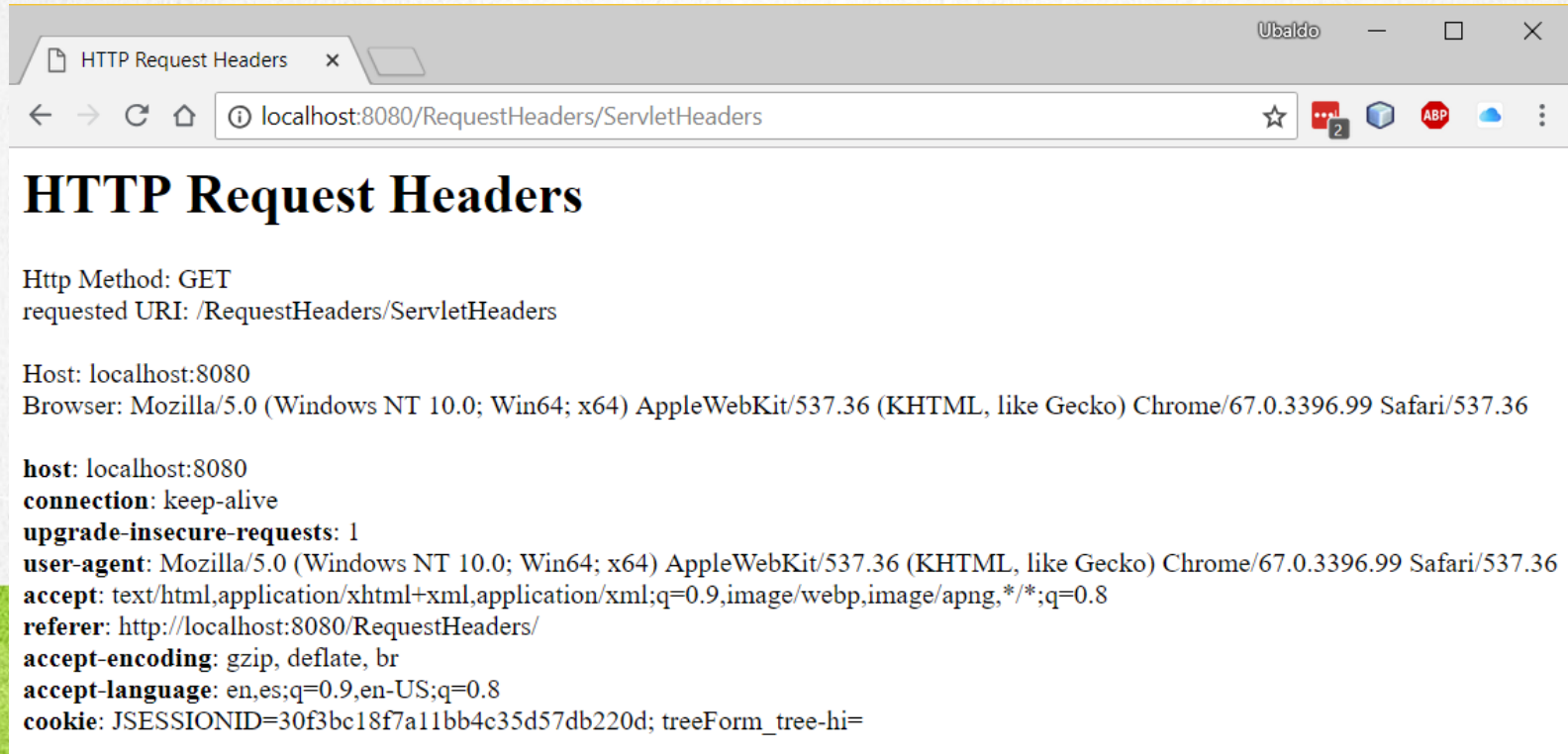


**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

# EXERCISE OBJECTIVE

Create a program for managing HTTP headers using Servlets.  
At the end we should observe the following:



# 1. CREATE A NEW PROJECT

Create a new web Project using Maven:

**New Web Application**

**Steps**

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

**Name and Location**

Project Name: RequestHeaders

Project Location: C:\Courses\Servlets\Lesson05 Browse...

Project Folder: C:\Courses\Servlets\Lesson05\RequestHeaders

Artifact Id: RequestHeaders

Group Id: web

Version: 1

Package: (Optional)

< Back **Next >** Finish Cancel Help

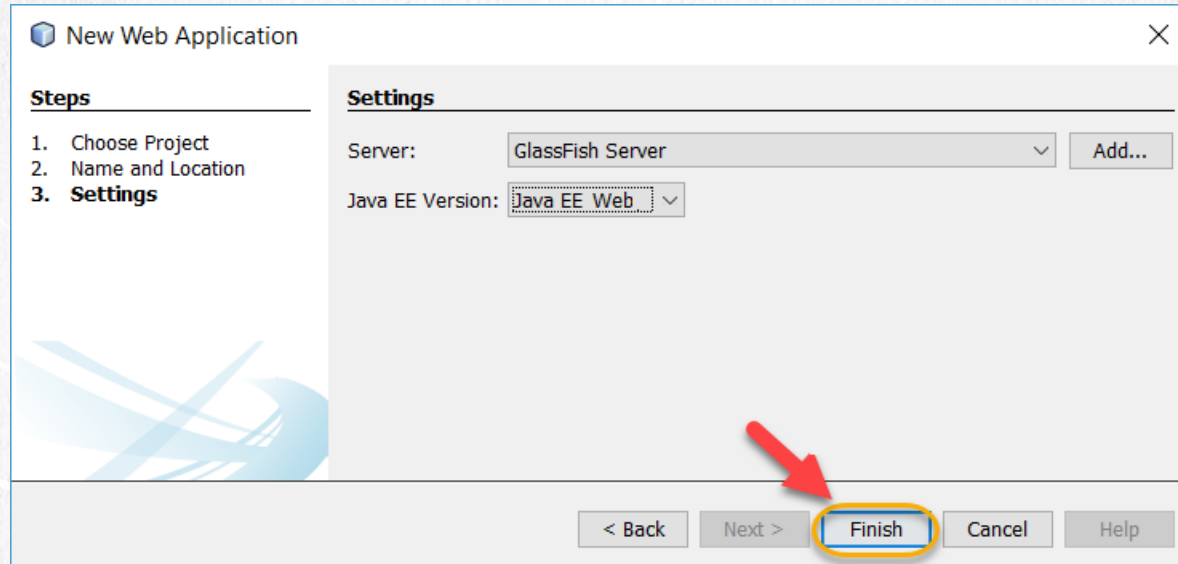
**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)



# 1. CREATE A NEW PROJECT

Create a new project:



**New Web Application** [X]

**Steps**

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

**Settings**

Server: GlassFish Server [v] [Add...]

Java EE Version: Java EE Web [v]

< Back   Next >   **Finish**   Cancel   Help

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 2. CREATE A NEW CLASS

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](http://www.globalmentoring.com.mx)

### 3. MODIFY THE CODE

#### Servlet.java:

[Click to download](#)

```
package web;

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

@WebServlet("/ServletHeaders")
public class Servlet extends HttpServlet {

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

        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            // We process the headers related to the
            // information of the request
            String httpMethod = request.getMethod();
            String uri = request.getRequestURI();
```

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

# 3. MODIFY THE CODE

[Servlet.java:](#)

[Click to download](#)

```
out.println("<html>");
out.println("<head>");
out.println("<title>HTTP Request Headers</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1>HTTP Request Headers</h1>");
out.println("Http Method: " + httpMethod);
out.println("<br>");
out.println("requested URI: " + uri);
out.println("<br>");

//We process some headers that are part of the request
out.println("<br>");
out.println("Host: " + request.getHeader("Host"));
out.println("<br>");
out.println("Browser: " + request.getHeader("User-Agent"));

//We process all the headers
//these may vary depending on the browser used
out.println("<br>");
out.println("<br>");
Enumeration headers = request.getHeaderNames();
while (headers.hasMoreElements()) {
    String headerName = (String) headers.nextElement();
    out.println("<b>" + headerName + "</b>: ");
    out.println(request.getHeader(headerName));
    out.println("<br>");
}
```



### 3. MODIFY THE CODE

Servlet.java:

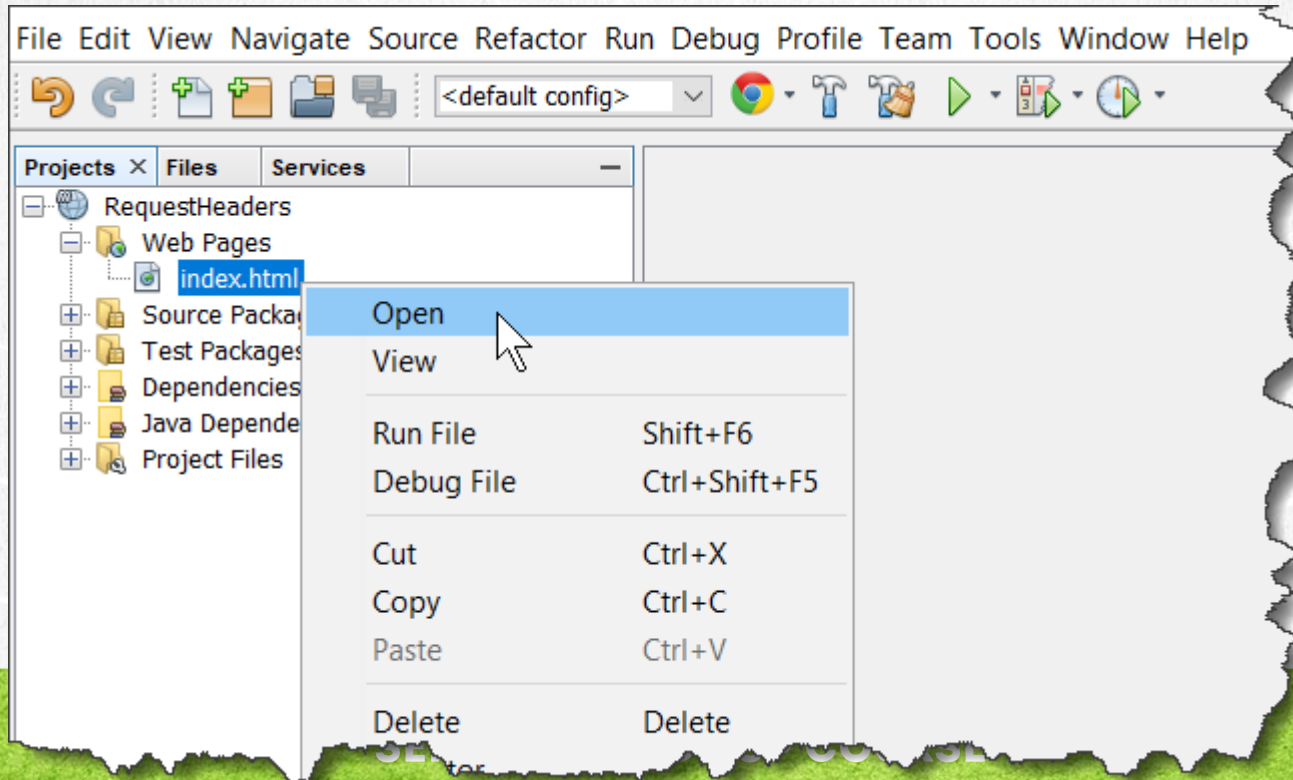
[Click to download](#)

```
        out.println("</body>");  
        out.println("</html>");  
  
    }  
  
}
```



## 4. MODIFY THE FILE

Modify the index.html file:



## 4. MODIFY THE CODE

[index.html:](#)

[Click to download](#)

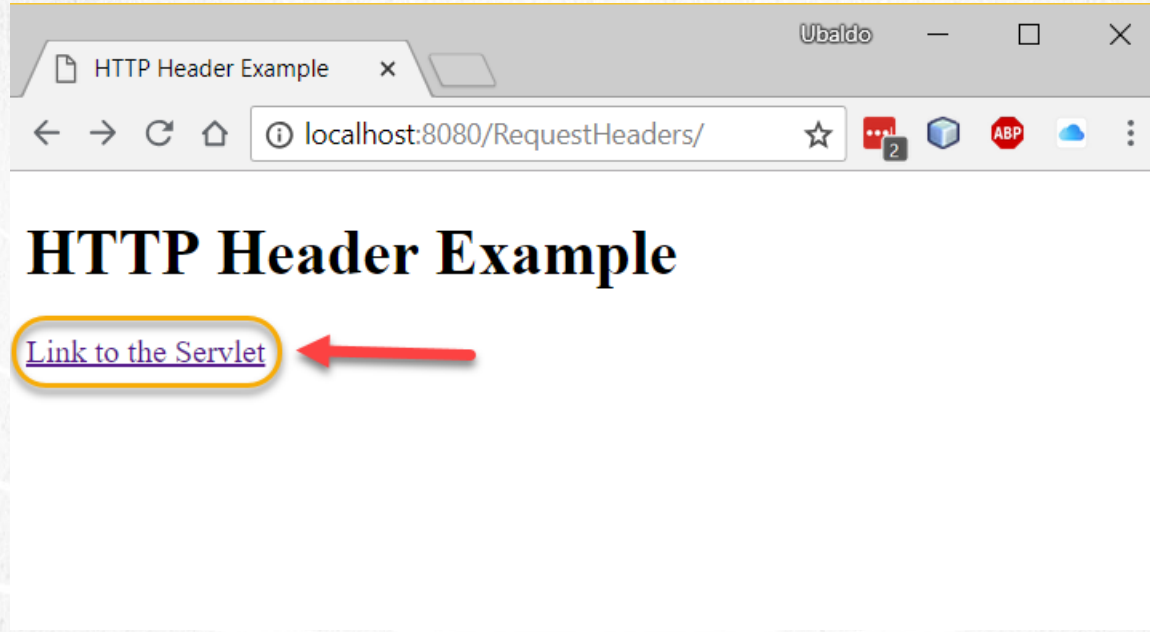
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>HTTP Header Example</title>
  </head>
  <body>
    <h1>HTTP Header Example</h1>
    <a href="/RequestHeaders/ServletHeaders">Link to the Servlet</a>
  </body>
</html>
```

**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

## 5. EJECUTE THE PROJECT

The result is as follows:

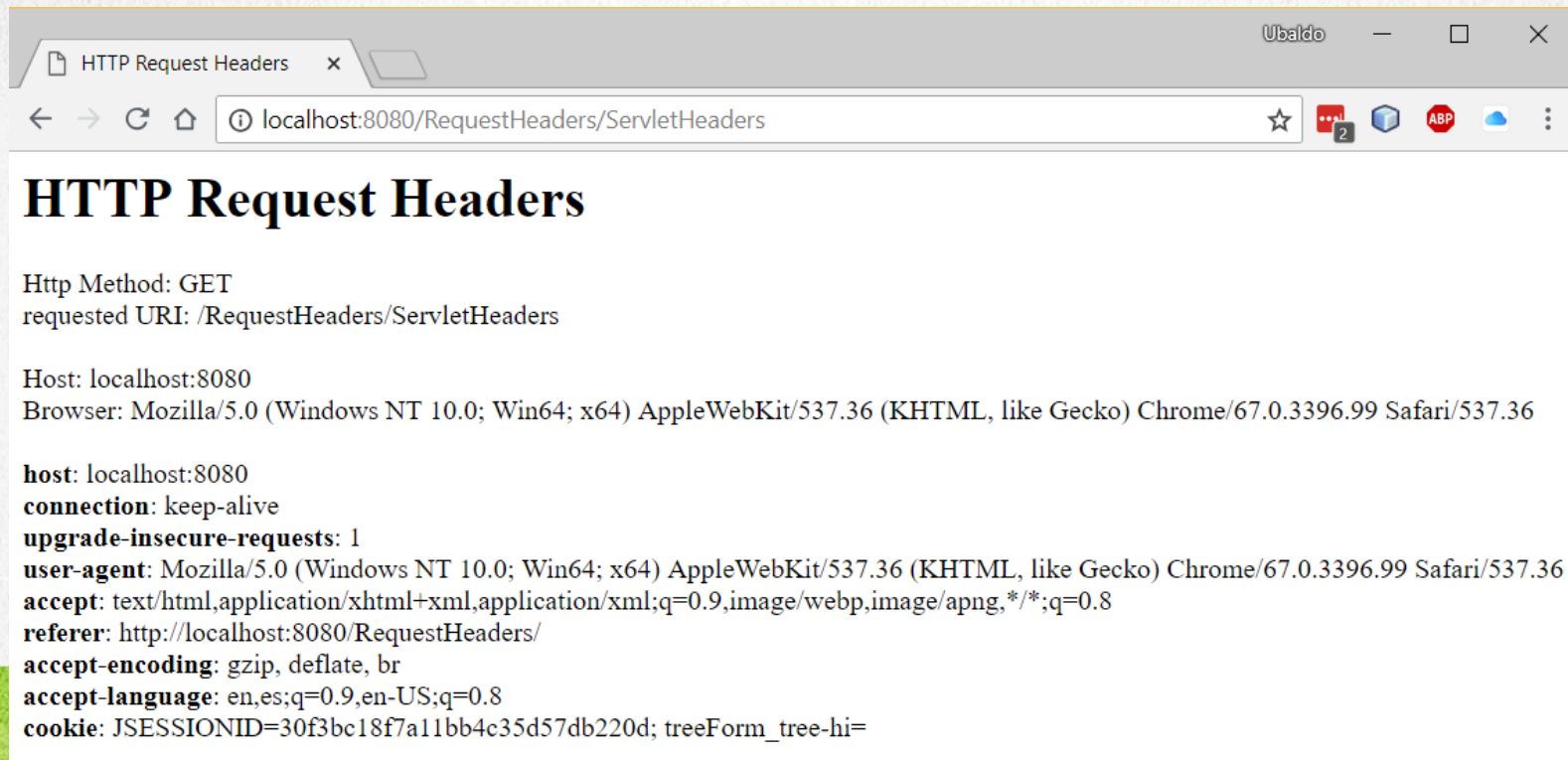


**SERVLETS AND JSP COURSE**

www.globalmentoring.com.mx

# 5. EJECUTE THE PROJECT

The result is as follows:





# EXERCISE CONCLUSION

- With this exercise we have implemented the management of headers with Servlets.
- We saw how to process several HTTP headers, and depending on the situation that is presented to us, they can be useful to make several decisions according to the header that we process or need.



**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)

**ONLINE COURSE**

# **SERVLETS & JSP' S**

---

By: Eng. Ubaldo Acosta



**SERVLETS AND JSP COURSE**

[www.globalmentoring.com.mx](http://www.globalmentoring.com.mx)