

**SERVLETS AND JSP COURSE**

# **EXERCISE**

## **HANDLING OF HTTP STATUS CODES**

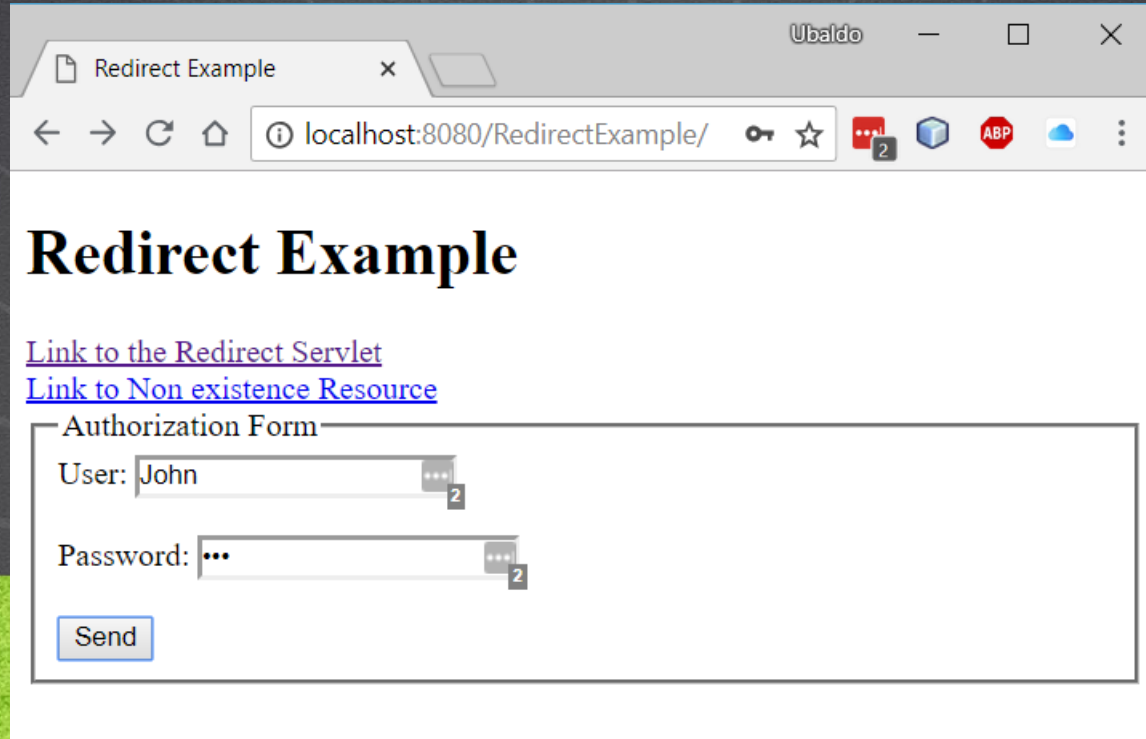


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# EXERCISE OBJECTIVE

Create a program to practice HTTP status codes. At the end we should observe the following:



The screenshot shows a web browser window with the title 'Redirect Example'. The address bar displays 'localhost:8080/RedirectExample/'. The page content includes the title 'Redirect Example', two blue hyperlinks, and an 'Authorization Form' containing input fields for 'User' (with the value 'John') and 'Password' (masked with dots), and a 'Send' button.

Redirect Example

[Link to the Redirect Servlet](#)

[Link to Non existence Resource](#)

Authorization Form

User:

Password:

# 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: RedirectExample

Project Location: C:\Courses\Servlets\Lesson07 Browse...

Project Folder: C:\Courses\Servlets\Lesson07\RedirectExample

Artifact Id: RedirectExample

Group Id: web

Version: 1

Package: (Optional)

< Back **Next >** Finish Cancel Help

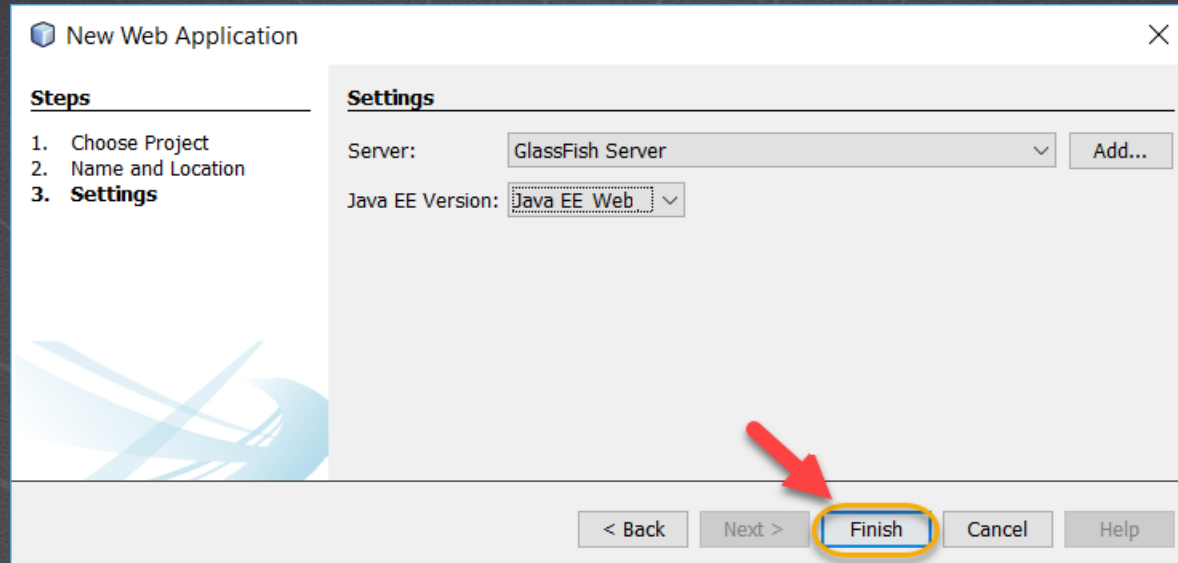
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# 1. CREATE A NEW PROJECT

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

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## 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: RedirectServlet

Project: RedirectExample

Location: Source Packages

Package: web

Created File: C:\Courses\Servlets\Lesson01\RedirectExample\src\main\java\web\RedirectServlet.java

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# 3. MODIFY THE FILE

## RedirectServlet.java:

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```
package web;

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

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

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        // We no longer use the PrintWriter object to send the response
        // We use the redirect
        String url = null;
        String browserType = request.getHeader("User-Agent");
        System.out.println("browser type: " + browserType);
        if (browserType != null && browserType.contains("Trident")) {
            url = "http://www.microsoft.com";
        } else if (browserType != null && browserType.contains("Firefox")) {
            url = "http://www.firefox.com";
        } else if (browserType != null && browserType.contains("Chrome")) {
            url = "http://www.google.com";
        }

        //Redirect to the selected URL
        response.sendRedirect(url);
    }
}
```



## 4. 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

# 5. MODIFY THE CODE

## ServletForm.java:

```
package web;

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

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

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        //Simulating correct values
        try (PrintWriter out = response.getWriter()) {
            //Simulating correct values
            String correctUser = "John";
            String correctPass = "123";
            String pUser = request.getParameter("user");
            String pPassword = request.getParameter("password");
```

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## 5. MODIFY THE CODE

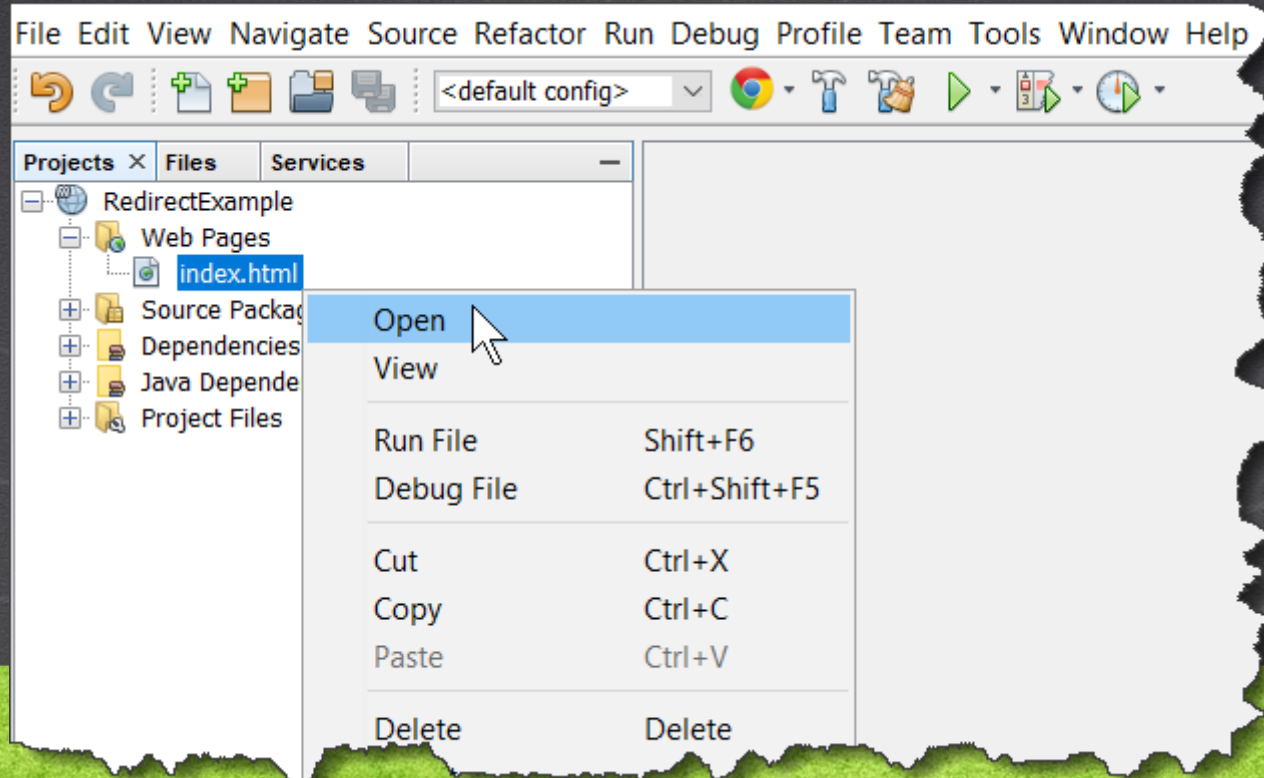
### ServletForm.java:

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```
if (correctUser.equals(pUser) && correctPass.equals(pPassword)) {
    out.println("<h1>");
    out.println("Correct Data");
    out.println("<br>User:" + pUser);
    out.println("<br>Password:" + pPassword);
    out.println("</h1>");
} else {
    //We respond to the browser with an unauthorized status code
    response.sendError(response.SC_UNAUTHORIZED, "The credentials are incorrect");
}
//List of error codes
//http://docstore.mik.ua/oreilly/java-ent/servlet/appc_01.htm
}
}
```

## 6. MODIFY THE FILE

Modify the index.html file:



## 6. MODIFY THE FILE

[index.html:](#)

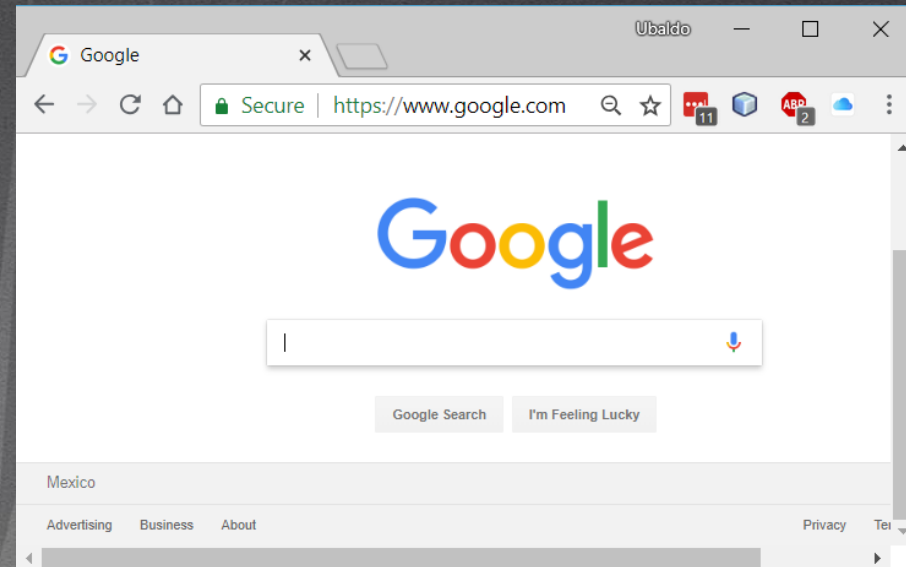
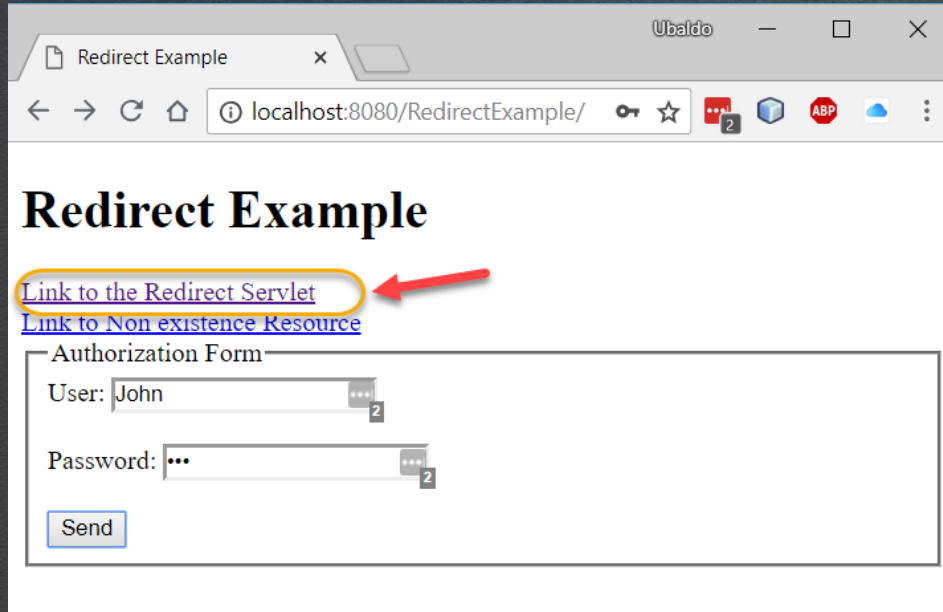
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```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Redirect Example</title>
  </head>
  <body>
    <h1>Redirect Example</h1>
    <a href="/RedirectExample/RedirectServlet">Link to the Redirect Servlet</a>
    <br>
    <a href="/RedirectExample/NonExistenceResource">Link to Non existence Resource</a>
    <br/>
    <fieldset>
      <legend>Authorization Form</legend>
      <form name="form1" action="/RedirectExample/ServletForm" method="POST">
        User: <input type="text" name="user">
        <br/><br/>
        Password: <input type="password" name="password">
        <br/><br/>
        <input type="submit" value="Send"/>
      </form>
    </fieldset>
  </body>
</html>
```



# 7. EXECUTE THE PROJECT

Testing the redirect servlet:

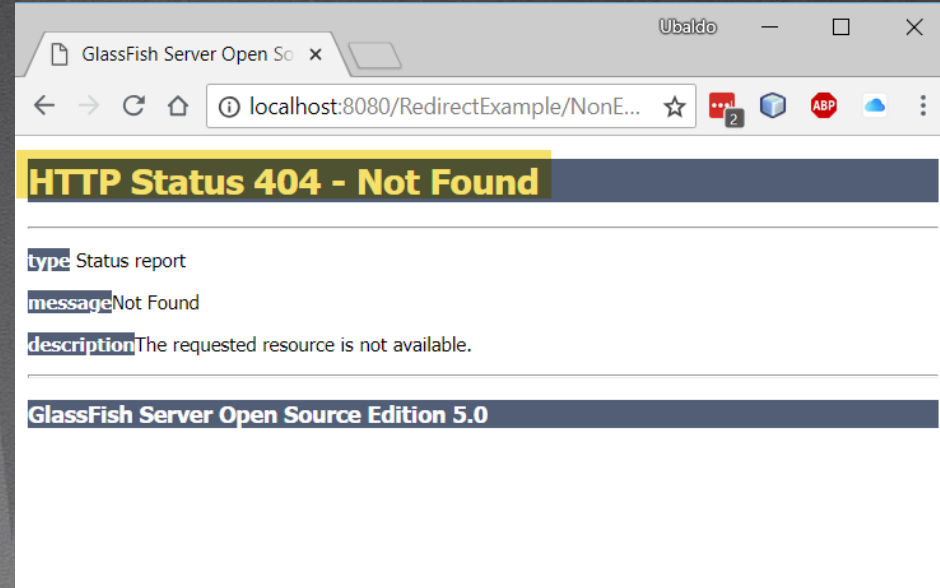
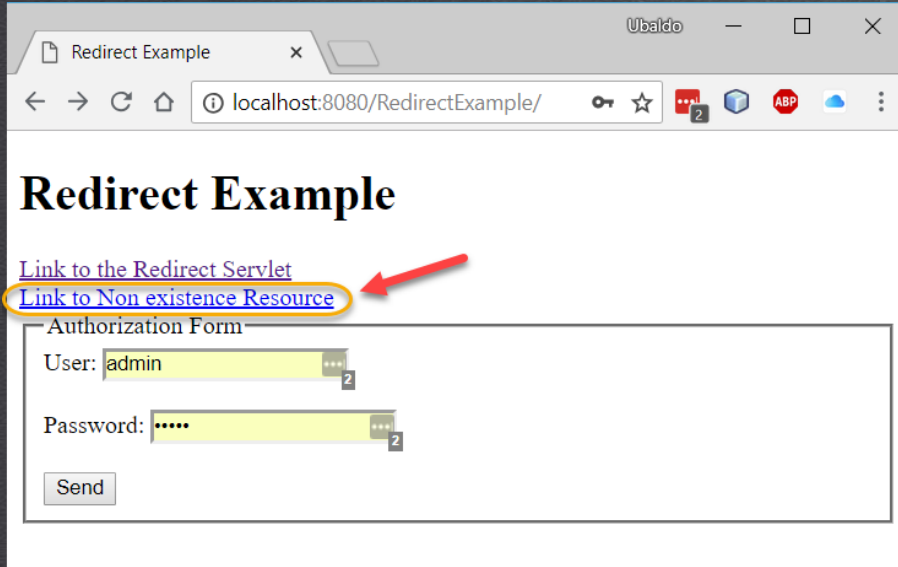


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# PASO 7. EJECUTAMOS EL PROYECTO

Testing with the non existence resource:

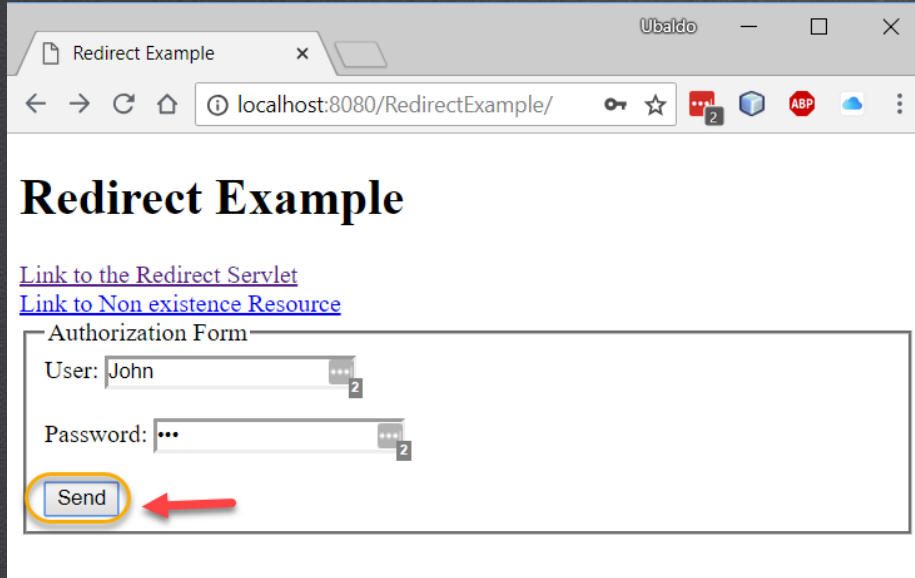


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# PASO 7. EJECUTAMOS EL PROYECTO

Testing with the correct values:



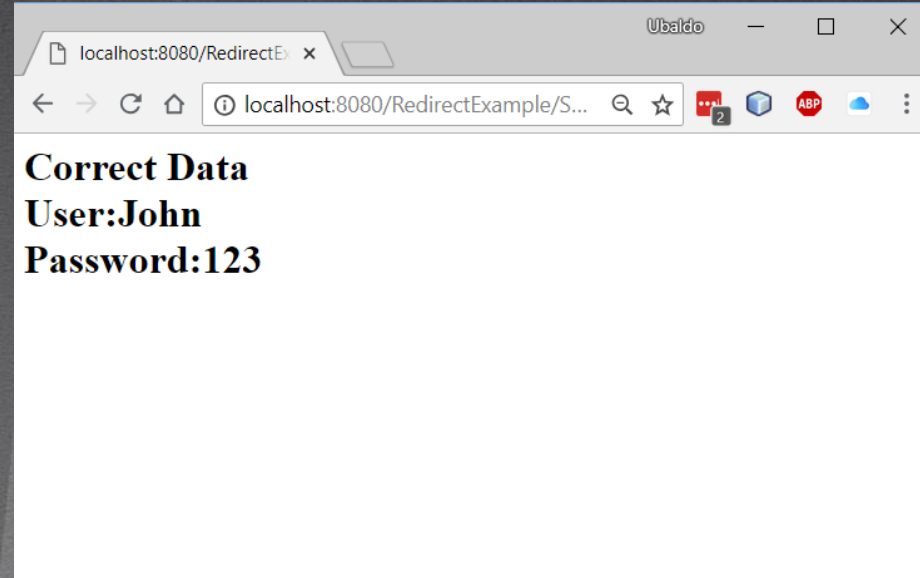
Redirect Example

[Link to the Redirect Servlet](#)  
[Link to Non existence Resource](#)

Authorization Form

User:

Password:



Correct Data  
User:John  
Password:123

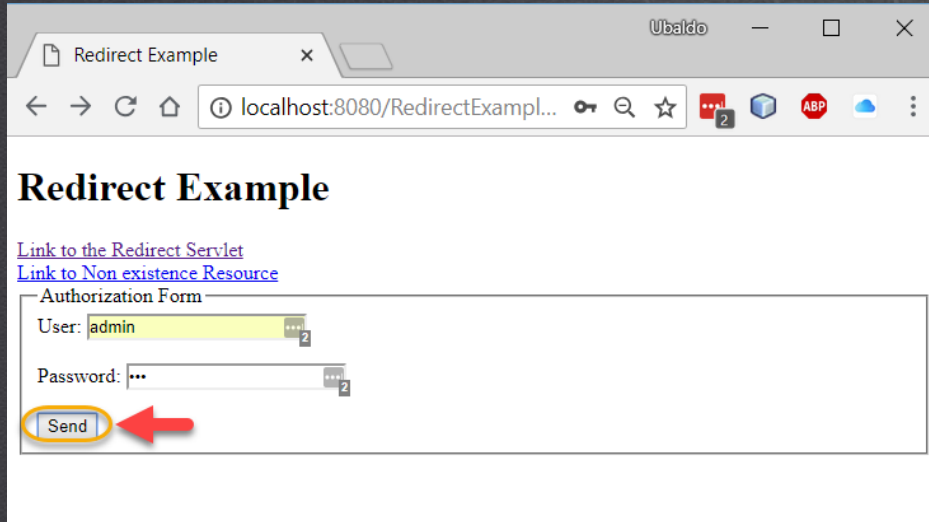
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# PASO 7. EJECUTAMOS EL PROYECTO

Testing with erroneous values:



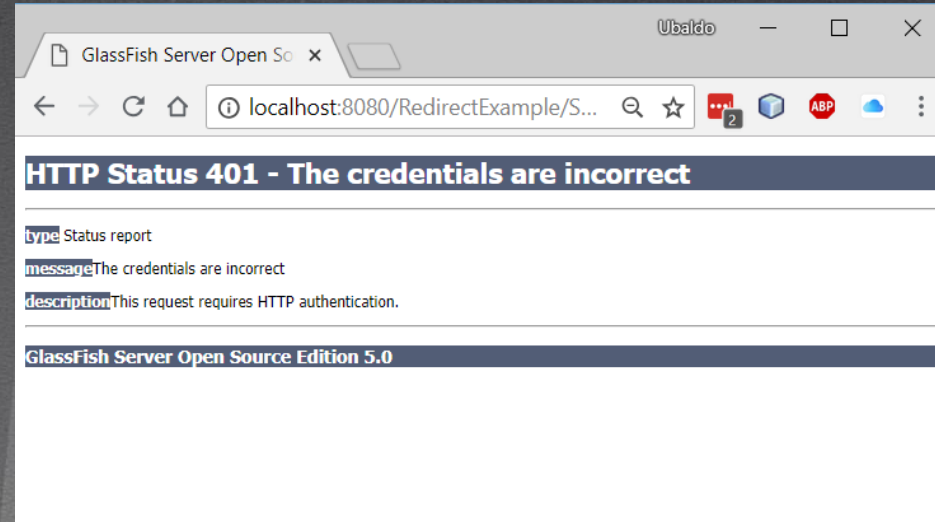
Redirect Example

[Link to the Redirect Servlet](#)  
[Link to Non existence Resource](#)

Authorization Form

User:

Password:



GlassFish Server Open Source Edition 5.0

**HTTP Status 401 - The credentials are incorrect**

**type** Status report

**message** The credentials are incorrect

**description** This request requires HTTP authentication.

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# EXERCISE CONCLUSION

- With this exercise we have put into practice the use of the most common Http status codes.
- We saw how to redirect to another page and also how to send error codes according to the result processed by the Servlet, among several other points.



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