Week 6 - Server side programming: Servlet

Requirements: Make an html form to send personal data to a server so that the server can display it back.

Server: GlassFish

Index file (html):

```
<html>
   <head>
      <title>Login</title>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width,
initial-scale=1.0">
   </head>
   <body>
      <center><form name="loginForm" method="post"
action="NewServlet">
         Username: <input type="text" name="username" /><br><br>
         Password: <input type="password" name="password" /><br><br>
         Speaking language:
         <input type="checkbox" name="language" value="english"
/>English
         <input type="checkbox" name="language" value="french" />French
         <br><br>
         Gender:
         <input type="radio" name="gender" value="male" />Male
         <input type="radio" name="gender" value="female" />Female
         <br><br>
         Feedback:<br>
         <textarea rows="5" cols="30"
name="feedback"></textarea><br><br>
         Job Category:
```

```
            <select name="jobCat">
                <option value="tech">Technology</option>
                <option value="admin">Administration</option>
                <option value="biology">Biology</option>
                <option value="science">Science</option>
            </select><br><br>
            <input type="submit" value="Login" />
            </form></center>
    </body>
</html>
```

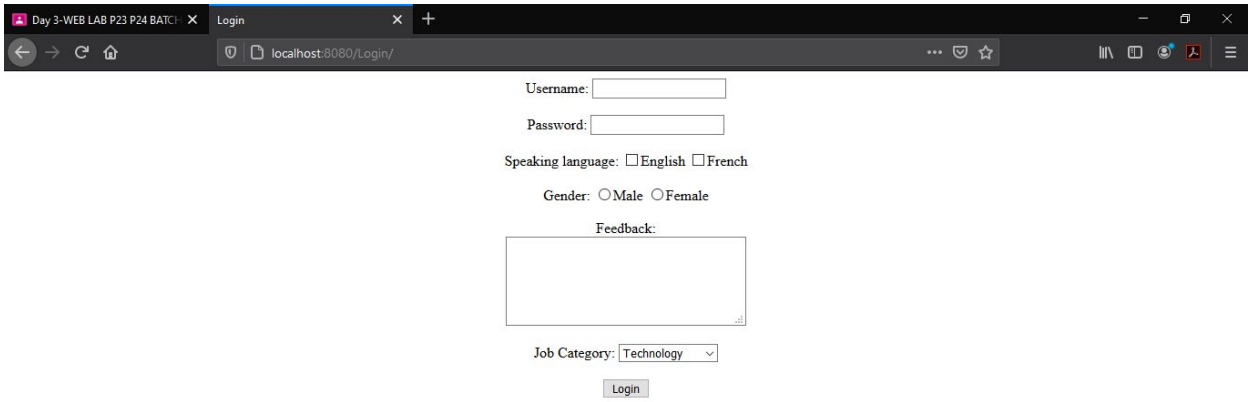
Servlet code:

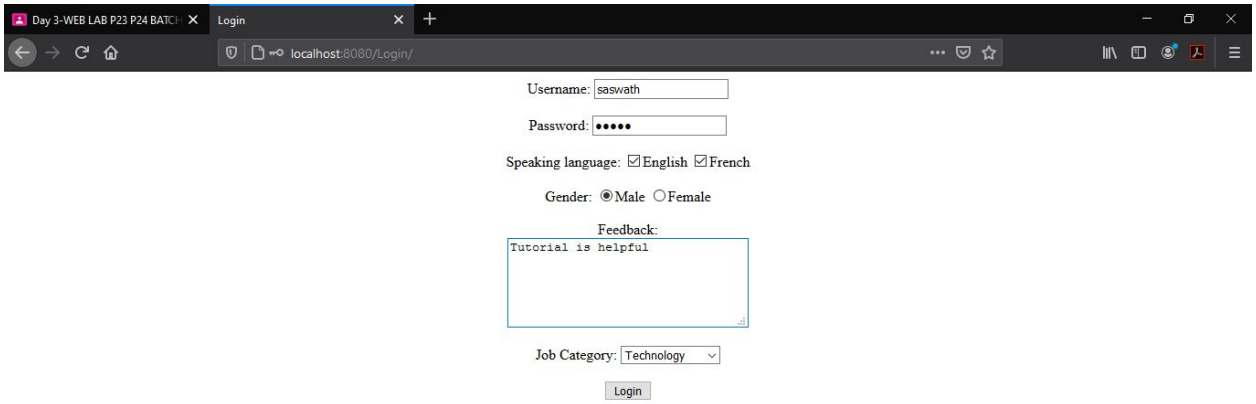
```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/NewServlet")
public class NewServlet extends HttpServlet {
        protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        String languages[] = request.getParameterValues("language");
        String gender = request.getParameter("gender");
        String feedback = request.getParameter("feedback");
        String category = request.getParameter("jobCat");
        System.out.println("username: " + username);
        System.out.println("password: " + password);
        // do some processing here...
        // get response writer
```

```
        PrintWriter writer = response.getWriter();
        // build HTML code
        String htmlRespone = "<html>";
        htmlRespone += "<h2>Your username is: " + username + "<br>";
        htmlRespone += "Your password is: " + password + "<br>";
        htmlRespone += "Your gender is: " + gender + "<br>";
        htmlRespone += "Your job category is: " + category + "<br>";
        htmlRespone += "Feedback is: " + feedback + "<br></h2>";
        htmlRespone += "</html>";
        // return response
        writer.println(htmlRespone);
        if(languages != null){
        writer.println("<h2>Language(s):");
        for(String lang : languages){
                writer.println(lang);
        }
        writer.println("</h2>");
        }
        }
}
```

Output:





Form with input data

Your username is: saswath
Your password is: admin
Your gender is: male
Your job category is: tech
Feedback is: Tutorial is helpful

Language(s): english french

Response from server