ASSIGNMENT OF SESSION

Html code:

```html
Login.html ×   LoginServlet.java   LogoutServlet.java   Error.jsp   Welcome.jsp
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Login</title>
7  </head>
8  <body>
9      <h2>Login Page</h2>
10     <form action="LoginServlet" method="post">
11         <label for="username">Username:</label>
12         <input type="text" id="username" name="username" required>
13         <br><br>
14         <label for="password">Password:</label>
15         <input type="password" id="password" name="password" required>
16         <br><br>
17         <input type="submit" value="Login">
18     </form>
19 </body>
20 </html>
21
```

Loginservlet code

```java
28        /**
29         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
30         */
31        protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
32            // TODO Auto-generated method stub
33            response.getWriter().append("Served at: ").append(request.getContextPath());
34        }
35
36        /**
37         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
38         */
39        protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
40            // TODO Auto-generated method stub
41            doGet(request, response);
42            HttpSession session = request.getSession(false);
43            if (session != null) {
44                session.invalidate();
45            }
46            response.sendRedirect("Login.html");
47        }
48
49    }
50
51
3   import jakarta.servlet.ServletException;
4   import jakarta.servlet.annotation.WebServlet;
5   import jakarta.servlet.http.HttpServlet;
6   import jakarta.servlet.http.HttpServletRequest;
7   import jakarta.servlet.http.HttpServletResponse;
8   import jakarta.servlet.http.HttpSession;
9
10  import java.io.IOException;
11
12  /**
13   * Servlet implementation class LoginServlet
14   */
15
16  @WebServlet("/LoginServlet")
17  public class LoginServlet extends HttpServlet {
18      private static final long serialVersionUID = 1L;
19
20      /**
21       * @see HttpServlet#HttpServlet()
22       */
23      public LoginServlet() {
24          super();
25          // TODO Auto-generated constructor stub
26      }
27
28      /**
29       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
30       */
31      protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
32          // TODO Auto-generated method stub
33          response.getWriter().append("Served at: ").append(request.getContextPath());
34      }
35
```

Logoutservlet code

```java
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

import java.io.IOException;

/**
 * Servlet implementation class LogoutServlet
 */

@WebServlet("/LogoutServlet")
public class LogoutServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public LogoutServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
    }
```

```java
    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        // Simulated user validation: In a real application, validate against a database
        if ("admin".equals(username) && "password".equals(password)) {
            HttpSession session = request.getSession(true);
            session.setAttribute("username", username);
            response.sendRedirect("Welcome.jsp");
        } else {
            response.sendRedirect("Error.jsp");
        }

    }

}
```

Welcome jsp code

```jsp
1  <%@ page language="java" contentType="text/html; charset=UTF-8"
2      pageEncoding="UTF-8"%>
3
4      <%@ page import="jakarta.servlet.http.HttpSession" %>
5
6  <%
7      HttpSession session2 = request.getSession(false);
8      if (session2 == null || session2.getAttribute("username") == null) {
9          response.sendRedirect("login.html");
10     } else {
11         String username = (String) session2.getAttribute("username");
12 %>
13 <!DOCTYPE html>
14 <html lang="en">
15 <head>
16     <meta charset="UTF-8">
17     <meta name="viewport" content="width=device-width, initial-scale=1.0">
18     <title>Welcome</title>
19 </head>
20 <body>
21     <h2>Welcome, <%= username %>!</h2>
22     <form action="LogoutServlet" method="post">
23         <input type="submit" value="Logout">
24     </form>
25 </body>
26 </html>
27 <%
28     }
29 %>
30
```

Error jsp code

```jsp
1  <%@ page language="java" contentType="text/html; charset=UTF-8"
2      pageEncoding="UTF-8"%>
3  <!DOCTYPE html>
4  <html lang="en">
5  <head>
6      <meta charset="UTF-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>Error</title>
9  </head>
10 <body>
11     <h2>Login Failed</h2>
12     <p>Invalid username or password. <a href="Login.html">Please try again.</a></p>
13
14 </body>
15 </html>
16
```

Output for correct username & password

Login Page

Username: admin

Password: Password 🦯

Login

Welcome, admin!

Logout

Output for incorrect username & password

Login Page

Username: Bonheur90

Password: 9090

Login

Login Failed

Invalid username or password. Please try again.