

Department of Computer Science and Engineering

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1 April 2021

UCS1601 - Internet Programming

Assignment 5: Profile Servlet using Session and MySQL

Objective:

Implement Profile Servlet using Http Sessions.

Code:

HTML:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <title>Profile Session</title>
5     <meta charset="utf-8">
```

```

6     <link rel="stylesheet" href="styles.css">
7 </head>
8
9 <body>
10    <h1>Profile Login</h1>
11    <hr><br>
12    <table>
13        <form id="loginform" action="http://localhost:8080/
A05-ProfileServlet/LoginServlet">
14            <tr>
15                <td><label for="username">Username: </label><
/td>
16                <td><input name="username" id="username" type
="text" required></td>
17            </tr>
18            <tr>
19                <td><label for="password">Password: </label><
/td>
20                <td><input name="password" id="password" type
="password" required></td>
21            </tr>
22            <tr>
23                <td><input type="submit" value="Login" id="
submit"></td>
24                <td><input type="button" value="Reset" id="
resetBtn" onclick="myReset()"></td>
25            </tr>
26        </form>
27    </table>
28    <script>
29        function myReset(){
30            document.getElementById("loginform").reset();
31        }
32    </script>
33 </body>

```

CSS:

```

1 body{
2     font-size: 16pt;
3     font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI
', 'Roboto', 'Oxygen',

```

```

4      'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', '
Helvetica Neue',
5      sans-serif;
6      background: rgb(2,0,36);
7      background: linear-gradient(90deg, rgba(2,0,36,1) 0%,
      rgba(9,9,121,1) 35%, rgba(0,212,255,1) 100%);
8      color: white;
9      height: 100vh;
10 }
11
12 h1{
13     font-size: 50pt;
14     text-align: center;
15     color: white;
16 }
17
18 table{
19     display: block;
20     margin-left: auto;
21     margin-right: auto;
22     width: 25%;
23     text-align: center;
24     border-spacing: 25px;
25 }

```

Login Servlet:

Java:

```

1 import java.io.*;
2 import java.util.*;
3 import javax.servlet.*;
4 import javax.servlet.http.*;
5 import java.sql.*;
6
7 public class LoginServlet extends HttpServlet {
8     public void doGet(HttpServletRequest request,
9         HttpServletResponse response) throws ServletException,
10         IOException {
11
12         String JDBC_DRIVER = "com.mysql.cj.jdbc.Driver";

```

```

11         String DB_URL = "jdbc:mysql://localhost:3306/mysql?
autoReconnect=true&useSSL=false";
12
13         String USER = "shiva";
14         String PASS = "$$Shiva123";
15
16
17         PrintWriter out = response.getWriter();
18         String user = request.getParameter("username");
19         String pass = request.getParameter("password");
20
21         try {
22             Class.forName(JDBC_DRIVER);
23             Connection conn = DriverManager.getConnection(
DB_URL, USER, PASS);
24             String sql = "SELECT password FROM Profile where
username = '"+user+"'";
25             Statement pst = conn.createStatement();
26
27             ResultSet rs = pst.executeQuery(sql);
28
29             out.println("<!DOCTYPE html>");
30             out.println("<html><head><link rel='stylesheet'
href='styles_login.css'></head><body style='font-size:15pt
'>");
31
32             if(rs.next()) {
33                 response.setContentType("text/html");
34                 String word = rs.getString("password");
35
36                 if (pass.equals(word)) {
37                     HttpSession session = request.getSession
();
38                     session.setAttribute("user", user);
39                     out.println("<h1><B>Welcome " + user + "<
B></h1><br>");
40                     out.println("<br><h2><a href='
ProfileServlet'>View profile in detail</a></h2>");
41                 }
42                 else {
43                     out.println("Invalid login");
44                     RequestDispatcher rd = request.
getRequestDispatcher("/index.html");
45                     rd.forward(request, response);
46                 }

```

```

47         }
48         pst.close();
49         conn.close();
50
51     } catch (SQLException sql) {
52         sql.printStackTrace();
53         out.println(sql);
54     } catch (Exception e) {
55         e.printStackTrace();
56         out.println(e);
57     }
58 }
59 }

```

Java stylesheet:

```

1 body{
2     font-size: 16pt;
3     font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI
4     ', 'Roboto', 'Oxygen',
5     'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', '
6     Helvetica Neue',
7     sans-serif;
8     background: rgb(87,10,10);
9     background: linear-gradient(90deg, rgba(87,10,10,1) 0%,
10    rgba(125,24,24,1) 44%, rgba(245,65,98,1) 100%);
11    color: white;
12    height: 100vh;
13    text-align: center;
14 }
15
16 h1{
17     font-size: 50pt;
18     text-align: center;
19     color: white;
20 }
21
22 table{
23     font-size: 20pt;
24     display: block;
25     margin-left: auto;
26     margin-right: auto;

```

```

24     width: 25%;
25     text-align: center;
26     border-spacing: 25px;
27 }
28
29 a{
30     color: white;
31 }

```

Profile Servlet:

Java:

```

1  import java.io.*;
2  import java.util.*;
3  import javax.servlet.*;
4  import javax.servlet.http.*;
5  import java.sql.*;
6
7  public class ProfileServlet extends HttpServlet{
8      public void doGet(HttpServletRequest request,
9          HttpServletResponse response) throws ServletException,
10         IOException {
11
12         String JDBC_DRIVER = "com.mysql.cj.jdbc.Driver";
13         String DB_URL = "jdbc:mysql://localhost:3306/mysql?
14             autoReconnect=true&useSSL=false";
15
16         String USER = "shiva";
17         String PASS = "$$Shiva123";
18
19         PrintWriter out = response.getWriter();
20         HttpSession session = request.getSession();
21         String name = (String) session.getAttribute("user");
22
23         try {
24             Class.forName(JDBC_DRIVER);
25             Connection conn = DriverManager.getConnection(
26                 DB_URL, USER, PASS);
27             Statement stmt = conn.createStatement();

```

```

25         String sql = "SELECT * FROM Profile where
username = '" + name + "'";
26         Statement pst = conn.createStatement();
27
28         ResultSet rs = pst.executeQuery(sql);
29         out.println("<!DOCTYPE html>");
30         out.println("<html><head><link rel='stylesheet'
href='styles_profile.css'></head><body>");
31         out.println("<h1><B>Welcome " + name + " to the
profile page!!</B></h1>");
32         out.println("<br><br>");
33         out.println("<table>");
34         while (rs.next()) {
35             response.setContentType("text/html");
36             int id = rs.getInt("id");
37             int age = rs.getInt("age");
38             String pro_name = rs.getString("name");
39             String addr = rs.getString("address");
40
41             out.println("<tr><th>Name: </th><td>" +
pro_name + "</td></tr>");
42             out.println("<tr><th>Age: </th><td>" + age +
"</td></tr>");
43             out.println("<tr><th>ID: </th><td>" + id + "
</td></tr>");
44             out.println("<tr><th>Address: </th><td>" +
addr + "</td></tr>");
45         }
46         out.println("</table></body></html>");
47
48         out.println("<form id='logoutform' action='http
://localhost:8080/A05-ProfileServlet/LogoutServlet'>");
49         out.println("<input type='submit' value='Logout'
id='submit'>");
50         out.println("</form>");
51
52         pst.close();
53         conn.close();
54
55
56     } catch (SQLException sql) {
57         sql.printStackTrace();
58         out.println(sql);
59     } catch (Exception e) {
60         e.printStackTrace();

```

```

61         out.println(e);
62     }
63 }
64 }

```

Java stylesheet:

```

1 body{
2     font-size: 16pt;
3     font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI
4     ', 'Roboto', 'Oxygen',
5     'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', '
6     Helvetica Neue',
7     sans-serif;
8     background: rgb(21,27,14);
9     background: linear-gradient(90deg, rgba(21,27,14,1) 0%,
10    rgba(4,65,5,1) 44%, rgba(7,196,38,1) 100%);
11    color: white;
12    height: 100vh;
13    text-align: center;
14 }
15
16 h1{
17     font-size: 50pt;
18     text-align: center;
19     color: white;
20 }
21
22 table{
23     font-size: 20pt;
24     display: block;
25     margin-left: auto;
26     margin-right: auto;
27     width: 25%;
28     text-align: center;
29     border-spacing: 25px;
30 }
31
32 a{
33     color: white;
34 }

```


Logout Servlet:

Java:

```
1 import java.io.*;
2 import java.util.*;
3 import javax.servlet.*;
4 import javax.servlet.http.*;
5 import java.sql.*;
6
7 public class LogoutServlet extends HttpServlet {
8     public void doGet(HttpServletRequest request,
9         HttpServletResponse response) throws ServletException,
10        IOException {
11
12        PrintWriter out = response.getWriter();
13
14        out.println("<!DOCTYPE html>");
15        out.println("<html><head><link rel='stylesheet' href
16        ='styles_logout.css'></head><body>");
17        try {
18            HttpSession session = request.getSession();
19            if (session.getAttribute("user") != null) {
20                String name = (String) session.getAttribute("
21                user");
22                session.invalidate();
23                out.println("<h1><B>Logged " + name + " out
24                succesfully!!<B></h1><br>");
25            }
26        } catch (Exception e) {
27            e.printStackTrace();
28            out.println(e);
29        }
30        out.println("<h3 id='timer'></h3>");
31        out.println("<script src='logout.js'></script>");
32    }
33 }
```

Java stylesheet:

```
1 body{
2     font-size: 16pt;
3     font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',
4     'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',
5     sans-serif;
6     background: rgb(21,27,14);
7     background: linear-gradient(90deg, rgba(21,27,14,1) 0%,
8     rgba(40,4,65,1) 44%, rgba(61,7,196,1) 100%);
9     color: white;
10    height: 100vh;
11    text-align: center;
12 }
13 h1{
14     font-size: 50pt;
15     text-align: center;
16     color: white;
17 }
18
19 table{
20     font-size: 20pt;
21     display: block;
22     margin-left: auto;
23     margin-right: auto;
24     width: 25%;
25     text-align: center;
26     border-spacing: 25px;
27 }
28
29 a{
30     color: white;
31 }
```

Java script file:

```
1 time = 5;
2 var x = setInterval(function() {
3     document.getElementById("timer").innerHTML = "Redirecting
4     to login page in : " + time + " s ";
```

```

4     time -= 1;
5     if(time < 0){
6         clearInterval(x);
7         location.href="index.html";
8     }
9 }, 1000);

```

XML:

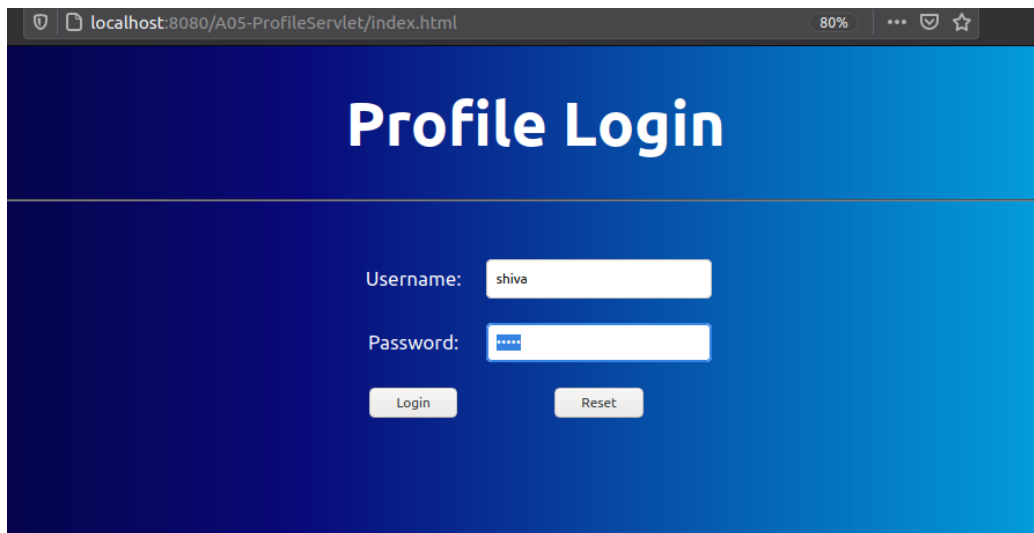
```

1 <web-app>
2     <servlet>
3         <servlet-name>LoginServlet</servlet-name>
4         <servlet-class>LoginServlet</servlet-class>
5     </servlet>
6 <servlet-mapping>
7     <servlet-name>LoginServlet</servlet-name>
8     <url-pattern>/LoginServlet</url-pattern>
9 </servlet-mapping>
10
11 <servlet>
12     <servlet-name>ProfileServlet</servlet-name>
13     <servlet-class>ProfileServlet</servlet-class>
14 </servlet>
15 <servlet-mapping>
16     <servlet-name>ProfileServlet</servlet-name>
17     <url-pattern>/ProfileServlet</url-pattern>
18 </servlet-mapping>
19
20 <servlet>
21     <servlet-name>LogoutServlet</servlet-name>
22     <servlet-class>LogoutServlet</servlet-class>
23 </servlet>
24 <servlet-mapping>
25     <servlet-name>LogoutServlet</servlet-name>
26     <url-pattern>/LogoutServlet</url-pattern>
27 </servlet-mapping>
28 </web-app>

```

Output:

Login:



A screenshot of a web browser window displaying a login page. The browser's address bar shows the URL `localhost:8080/A05-ProfileServlet/index.html` and the page is zoomed to 80%. The login page has a dark blue header with the title "Profile Login" in white. Below the header, there is a form with two input fields: "Username:" containing the text "shiva" and "Password:" with masked characters. At the bottom of the form are two buttons: "Login" and "Reset".

localhost:8080/A05-ProfileServlet/index.html 80%

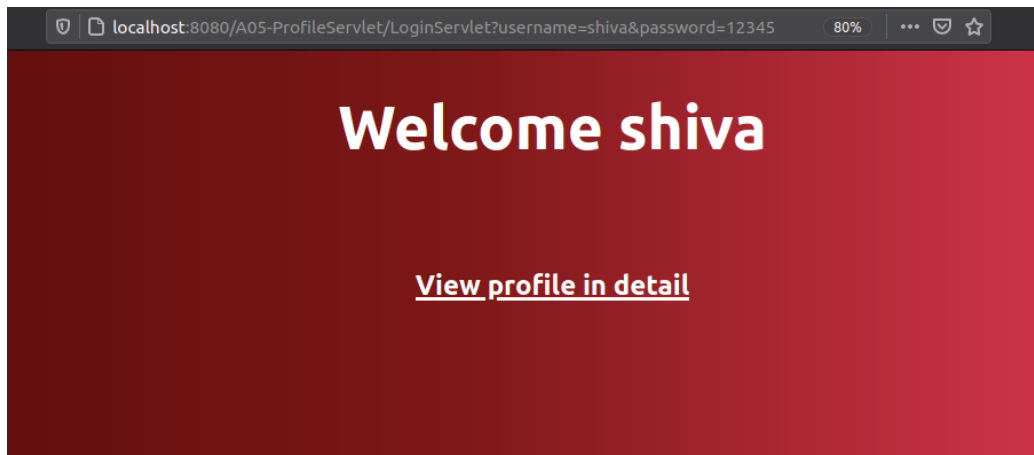
Profile Login

Username: shiva

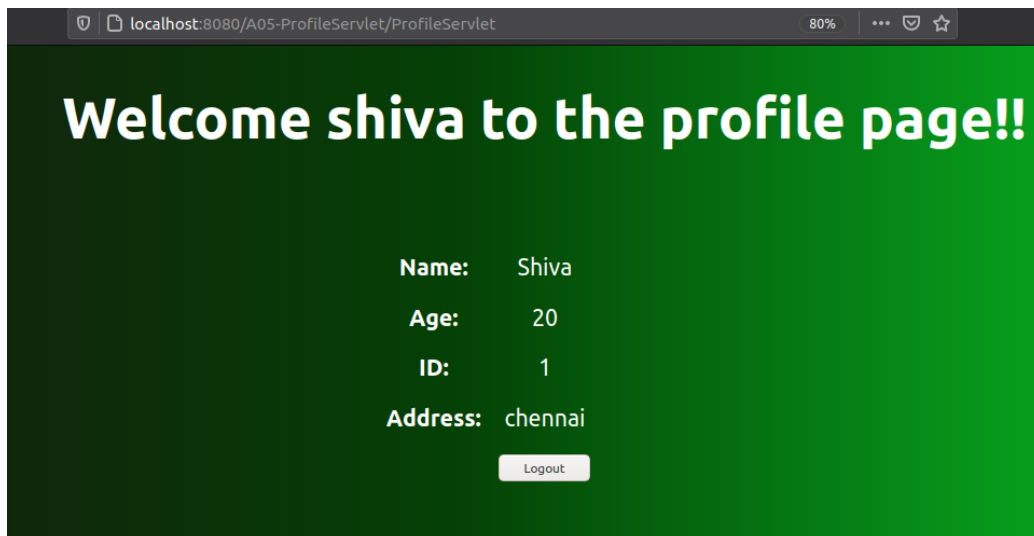
Password:

Login Reset

Login Servlet:



Profile Servlet:



Logout Servlet:

