UCS1601-INTERNET PROGRAMMING

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Exercise 5: Profile Servlet using Session and MySQL

Implement Profile Servlet using Http Sessions. The specifications are given below.

Specifications:

1. The login page should contain username, password, login button and logout button. On clicking login button, invoke the LoginServlet.

2. The LoginServlet should authenticate the user and store the username in session for viewing his profile and display a message "Welcome username".

3. The LoginServlet should also display a link "View Profile in Detail". The link when clicked, should invoke ProfileServlet.

4. ProfileServlet should display the username retrieved from the session with the message "Welcome username to the profile page". Also retrieve and display the detail information of the user from the database in that page. It also displays a link to the Login page to logout.

5. When Logout button is pressed, invoke the LogoutServlet.

6. LogoutServlet should invalidate the user session and display "Successfully Logged out"

Program:

(HTML file index.html)

```html
<html>
<head>
  <link rel="stylesheet" href="style.css">
  <link href="https://fonts.googleapis.com/css?family=Ubuntu" rel="stylesheet">
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="stylesheet" href="path/to/font-awesome/css/font-awesome.min.css">
  <title>Sign in</title>
</head>
<body onload="">
  <div class="main">
    <p class="sign" align="center">Sign in</p>
    <form class="form1" id="login">
      <input class="un" id="name" name="name" type="text" align="center" placeholder="Username">
      <input class="pass" id="pass" name="pass" type="password" align="center" placeholder="Password"><br><br>
      <a class="submit" align="center" onclick="signin();" >Sign in</a>

      <p class="forgot" align="center" onclick="window.location.href='./logoutservlet'">Logout?</p>
    </form>
    </div>
    <script src="script.js"></script>
</body>
</html>
```

(Java file loginservlet.java)

```java
import java.sql.*;
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;

public class loginservlet extends HttpServlet {
    public void doGet(HttpServletRequest request,HttpServletResponse response) throws ServletException, IOException {
```

```java
response.setContentType("text/html");
PrintWriter pw=response.getWriter();
Connection con;
PreparedStatement ps;
Statement st;
ResultSet rs;
try
{
    Class.forName("com.mysql.cj.jdbc.Driver");
    try
    {
        con =DriverManager.getConnection("jdbc:mysql://localhos
t:3306/user","sree","sree");
        try
        {
            String srch = "SELECT * FROM users WHERE uname=\""+
(String)request.getParameter("name")+"\" and pass=\""+(String)request.g
etParameter("pass")+"\";";
            st = con.createStatement();
            rs=st.executeQuery(srch);
            if(rs.next()){
                pw.println("<script>");
                pw.println("alert(\"Logged in Successfully\");"
);
                pw.println("</script>");
                HttpSession session = request.getSession(true);
                session.setAttribute("uname",(String)request.ge
tParameter("name"));
                String user_name = rs.getString(3);
                pw.println("<html><head><link rel=\"stylesheet\
" href=\"style.css\"><link href=\"https://fonts.googleapis.com/css?fami
ly=Ubuntu\" rel=\"stylesheet\">");
                pw.println("<meta name=\"viewport\" content=\"w
idth=device-width, initial-
scale=1\" /> <link rel=\"stylesheet\" href=\"path/to/font-
awesome/css/font-awesome.min.css\">");
                pw.println("<s src=\"script.js\"></s><title>Log
in</title></head><body><p class=\"sign\" align=\"center\">Welcome "+use
r_name+"</p>");
                pw.println("<div><a class=\"submit\" align=\"ce
nter\" onclick=\"view();\" >View detail</a></div><script src=\"script.j
s\"></script></body></html>");
            }
            else
            {
```

```java
                        pw.println("<script>");
                        pw.println("alert(\"No data exists in that id \
");");
                        pw.println("location='http://localhost:8080/ex5
sql/index.html';");
                        pw.println("</script>");
                    }
                }
                catch(SQLException e)
                {
                    pw.println("<script>");
                    pw.println("alert(\"Can't Retrive the data"+e+" \")
;");
                    pw.println("location='http://localhost:8080/ex5sql/
index.html';");
                    pw.println("</script>");
                }
            }
            catch (SQLException e)
            {
                pw.println("<script>");
                pw.println("alert(\"Failed to establish connection.Try
again Later. Error Code :1 \");");
                pw.println("location='http://localhost:8080/ex5sql/inde
x.html';");
                pw.println("</script>");
            }
        }
        catch(ClassNotFoundException e)
        {
            pw.println("<script>");
            pw.println("alert(\"Driver class not found.Error Code :0 \"
);");
            pw.println("location='http://localhost:8080/ex5sql/index.ht
ml';");
            pw.println("</script>");
        }
        pw.close();
    }

}
```

(Java file profileservlet.java)

```java
import java.sql.*;
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;

public class profileservlet extends HttpServlet {
    public void doGet(HttpServletRequest request,HttpServletResponse response) throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter pw=response.getWriter();
        Connection con;
        Statement st;
        ResultSet rs;
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            try
            {
                con =DriverManager.getConnection("jdbc:mysql://localhost:3306/user","sree","sree");
                try
                {
                    HttpSession session = request.getSession(false);
                    String srch = "SELECT * FROM users WHERE uname=\""+
(String)session.getAttribute("uname")+"\";";
                    st = con.createStatement();
                    rs=st.executeQuery(srch);
                    if(rs.next()){
                        pw.println("<html><head><link rel=\"stylesheet\" href=\"style.css\"><link rel=\"stylesheet\" href=\"table_style.css\"><link href=\"https://fonts.googleapis.com/css?family=Ubuntu\" rel=\"stylesheet\">");
                        pw.println("<meta name=\"viewport\" content=\"width=device-width, initial-scale=1\" /> <link rel=\"stylesheet\" href=\"path/to/font-awesome/css/font-awesome.min.css\">");
                        pw.println("<title>Profile</title></head>");
                        pw.println("<br><br><br><br><br><body>");
                        pw.println("<p class=\"sign\" align=\"center\"> Welcome "+(String)session.getAttribute("uname")+"</p>");
                        pw.println("<table>");
                        pw.println("<thead>");
```

```java
                        pw.println("<tr><th>Name</th><th>Gender</th><th
>Address</th><th>Marital status</th><th>Phone No</th></tr>");
                        pw.println("</thead>");
                        pw.println("<tbody>");
                        do{
                            pw.println("<tr><td>"+rs.getString(3)+"</td
><td>"+rs.getString(4)+"</td><td>"+rs.getString(5)+"</td><td>"+rs.getSt
ring(6)+"</td><td>"+rs.getString(7)+"</td></tr>");
                        }while(rs.next());
                        pw.println("</tbody>");
                        pw.println("</table><br><br><br><div><a class=\
"submit\" align=\"center\" onclick=\"logout();\" >Logout</a><script src
=\"script.js\"></script></div></body></html>");
                    }
                    else
                    {
                        pw.println("<script>");
                        pw.println("alert(\"No data exist in main updat
e\");");
                        pw.println("location='http://localhost:8080/ex5
sql/index.html';");
                        pw.println("</script>");
                    }
                }
                 catch(SQLException e)
                {
                    pw.println("<script>");
                    pw.println("alert(\"Can't Retrive the data"+e+" \")
;");
                    pw.println("location='http://localhost:8080/ex5sql/
index.html';");
                    pw.println("</script>");
                }
            }
            catch (SQLException e)
            {
                pw.println("<>");
                pw.println("alert(\"Failed to establish connection.Try
again Later. Error Code :1 \");");
                pw.println("location='http://localhost:8080/ex4sql/inde
x.html';");
                pw.println("</>");
            }
        }
        catch(ClassNotFoundException e)
        {
```

```java
                pw.println("<>");
                pw.println("alert(\"Driver class not found.Error Code :0 \"
);");
                pw.println("location='http://localhost:8080/ex4sql/index.ht
ml';");
                pw.println("</>");
        }
        pw.close();
    }

}
```

(Java file logoutservlet.java)

```java
import java.io.*;
import java.util.Date;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
public class logoutservlet extends HttpServlet {
public void doGet(HttpServletRequest request, HttpServletResponse respo
nse)
throws ServletException, IOException {
    try{
        PrintWriter pw=response.getWriter();
        HttpSession session = request.getSession(false);
        session.invalidate();
        pw.println("<script>");
        pw.println("alert(\"Logged out Successfully\");");
        pw.println("location='http://localhost:8080/ex5sql/index.html';
");
        pw.println("</script>");
    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}
}
```

(Javascript file script.js)

```javascript
function signin(){
  document.getElementById("login").action = "./login";
  document.getElementById("login").submit();
}
function view(){
  window.location.href='./profile';
}
function logout(){
  window.location.href='./logout';
}
//window.location.href='./dbcheck';
```

(CSS file table_style.css)

```css
table:hover {
    transform: scale(1.2);
  }
  th {
    padding: 15px;
  text-align:centre;
  background-color: black;
  border: 2px solid black;
  color:white;
  }
  h1{
    color: rgb(89, 228, 238);
  }
  tr:hover {background-color:#edffec;}
  tr:nth-child(even) {background-color:white;}
  td{
  padding: 15px;
  text-align:centre;
  border: 1px solid black;
  }
  table {
    border: 1px solid black;
  width : 50%;
  border-collapse: collapse;
  border: 1px solid black;
  margin-left: auto;
  margin-right: auto;
```

```css
    transition: transform 0.3s;
    }
```

(CSS file Style.css)

```css
body {
    background-color: #F3EBF6;
    font-family: 'Ubuntu', sans-serif;
}

.main {
    background-color: #FFFFFF;
    width: 400px;
    height: 400px;
    margin: 7em auto;
    border-radius: 1.5em;
    box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);
}

.sign {
    padding-top: 40px;
    color: #8C55AA;
    font-family: 'Ubuntu', sans-serif;
    font-weight: bold;
    font-size: 23px;
}
.form3 {
  background-color: #FFFFFF;
  width: 500px;
  height: 300px;
  margin: 7em auto;
  border-radius: 1.5em;
  box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);
}
.un {
width: 76%;
color: rgb(38, 50, 56);
font-weight: 700;
font-size: 14px;
letter-spacing: 1px;
background: rgba(136, 126, 126, 0.04);
padding: 10px 20px;
border: none;
border-radius: 20px;
```

```css
    outline: none;
    box-sizing: border-box;
    border: 2px solid rgba(0, 0, 0, 0.02);
    margin-bottom: 50px;
    margin-left: 46px;
    text-align: center;
    margin-bottom: 27px;
    font-family: 'Ubuntu', sans-serif;
}

form.form1 {
    padding-top: 40px;
}

.pass {
        width: 76%;
    color: rgb(38, 50, 56);
    font-weight: 700;
    font-size: 14px;
    letter-spacing: 1px;
    background: rgba(136, 126, 126, 0.04);
    padding: 10px 20px;
    border: none;
    border-radius: 20px;
    outline: none;
    box-sizing: border-box;
    border: 2px solid rgba(0, 0, 0, 0.02);
    margin-bottom: 50px;
    margin-left: 46px;
    text-align: center;
    margin-bottom: 27px;
    font-family: 'Ubuntu', sans-serif;
}


.un:focus, .pass:focus {
    border: 2px solid rgba(0, 0, 0, 0.18) !important;

}

.submit {
  cursor: pointer;
    border-radius: 5em;
    color: #fff;
    background: linear-gradient(to right, #9C27B0, #E040FB);
    border: 0;
```

```css
        padding-left: 40px;
        padding-right: 40px;
        padding-bottom: 10px;
        padding-top: 10px;
        font-family: 'Ubuntu', sans-serif;
        margin-left: 35%;
        font-size: 13px;
        box-shadow: 0 0 20px 1px rgba(0, 0, 0, 0.04);
}

.forgot {
        text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);
        color: #E1BEE7;
        padding-top: 15px;
}

a {
        text-shadow: 0px 0px 3px rgba(117, 117, 117, 0.12);
        color: #E1BEE7;
        text-decoration: none;
}
.container {
        display: inline-block;
        position: relative;
        padding-left: 40px;
        margin-left: 60px;
        cursor: pointer;
        font-size: 18px;
        -webkit-user-select: none;
        -moz-user-select: none;
        -ms-user-select: none;
        user-select: none;

    }

    .container input {
      position: absolute;
      opacity: 0;
      cursor: pointer;
    }


    .checkmark {
      position: absolute;
      top: 0;
      left: 0;
```

```css
    height: 25px;
    width: 25px;
    background-color: #eee;
    border-radius: 50%;
}

.container:hover input ~ .checkmark {
    background-color: #ccc;
}


.container input:checked ~ .checkmark {
    background-color: #2196F3;
}


.checkmark:after {
    content: "";
    position: absolute;
    display: none;
}


.container input:checked ~ .checkmark:after {
    display: block;
}


.container .checkmark:after {
    top: 9px;
    left: 9px;
    width: 8px;
    height: 8px;
    border-radius: 50%;
    background: white;
}
@media (max-width: 600px) {
    .main {
        border-radius: 0px;
    }
}
.main_home {
    background-color: #FFFFFF;
    width: 400px;
    height: 700px;
    margin: 7em auto;
```

```css
    border-radius: 1.5em;
    box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);
}
.form2 {
    background-color: #FFFFFF;
    width: 500px;
    height: 1000px;
    margin: 7em auto;
    border-radius: 1.5em;
    box-shadow: 0px 11px 35px 2px rgba(0, 0, 0, 0.14);
}
ul {
    list-style-type: none;
    margin:auto;
    padding:0;
    width: 160px;
    background-color: #f1f1f1;
}

li a {
    display: block;
    color: #000;
    padding: 10px 10px;
    text-decoration: none;
}

/* Change the link color on hover */
li a:hover {
    background-color: #555;
    color: white;
}
```

(XML file web.xml)

```xml
<web-app>
<servlet>
<servlet-name>dbcheck</servlet-name>
<servlet-class>Home</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>dbcheck</servlet-name>
<url-pattern>/dbcheck</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>loginservlet</servlet-name>
<servlet-class>loginservlet</servlet-class>
```

```xml
</servlet>
<servlet-mapping>
<servlet-name>loginservlet</servlet-name>
<url-pattern>/login</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>profileservlet</servlet-name>
<servlet-class>profileservlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>profileservlet</servlet-name>
<url-pattern>/profile</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>logoutservlet</servlet-name>
<servlet-class>logoutservlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>logoutservlet</servlet-name>
<url-pattern>/logout</url-pattern>
</servlet-mapping>
</web-app>
```

SNAPSHOT OF THE OUTPUT:

Welcome Sree

View detail

Welcome admin

Name	Gender	Address	Marital status	Phone No
Sree	male	chennai	single	9095466636

Logout