

SSN College of Engineering,
Kalavakkam Department of Computer
Science and Engineering VI Semester
- CSE 'C'
UCS1611 INTERNET PROGRAMMING LAB

Exercise 5: Profile Servlet Using Session and MySQL

ExpDate:06/04/2021

Done by: B.Vignesh CSE 6C 185001193

Learning Objective:

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"

.....

Code:

Index.html

```
<!DOCTYPE html>
<html>

<head>
    <title>Profile servlet using http sessions</title>
    <link rel="stylesheet" type="text/css"
href="style/style1.css" />
</head>

<body style="background-color: cyan">
    <div class="form">
        <h1>Login Page</h1>
        <br />
        <br />
        <form action="Login">
            <label for="uname"><b>Username: </b></label>
            <input type="text" placeholder="Enter
Username" id="uname" name="uname" required />
            <br />
            <br />
            <label for="pass"><b>Password: </b></label>
            <input type="password" placeholder="Enter
Password" id="pass" name="pass" required />
            <br />
            <br />
            <button type="submit">Login</button>
            <button type="reset">Reset</button>
        </form>
    </div>
</body>

</html>
```

.....

Login.java:

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

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

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/profiledb", "root", "2727");
            PreparedStatement stmt =
                conn.prepareStatement("SELECT COUNT(*) FROM profiledetails
                WHERE username=? AND password=?");
            String username = request.getParameter("uname");
            String password = request.getParameter("pass");
            stmt.setString(1, username);
            stmt.setString(2, password);
            ResultSet rs = stmt.executeQuery();

            String cssTag = "<link rel='stylesheet'
            type='text/css' href='style/style2.css'>";
            String cssTag1 = "<link rel='stylesheet'
            type='text/css' href='style/style.css'>";
            out.println("<html>");
            out.println("<head><title>Profile servlet using
            http sessions</title>" + cssTag + cssTag1 + "</head>");
            out.println("<body>");
            out.println("<div class='center'>");

            while(rs.next()) {
                if(rs.getInt(1) != 0){
                    HttpSession session = request.getSession();
                    session.setAttribute("username", username);
                    out.println("<h2><center>Welcome
                    " + username + "</center></h2><br><br>");
                    out.println("<form action='Profile'><br>
```

```

<input type=\"submit\" value=\"View Profile\">");
        }else{
            out.println("<h2>Invalid
Login</h2><br><br>");
            out.println("<form
action=\"index.html\"><br> <input type=\"submit\"
value=\"Login\">");
        }
        out.println("</div></body></html>");
    }

    catch (Exception e) {

    }

}
}

```

Profile.java

```

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

public class Profile extends HttpServlet {
    public void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/profil
                edb","root","2727");
            HttpSession session=request.getSession(false);
            String uname= (String)
                session.getAttribute("username");
            System.out.print(uname);
            Statement stmt = conn.createStatement();
            String sql = "SELECT * FROM profiledetails WHERE
                username=\"\" + uname + "\"";

```

```

        ResultSet rs = stmt.executeQuery(sql);
        String cssTag="<link rel='stylesheet'
type='text/css' href='style/style2.css'>";
        String cssTag1="<link rel='stylesheet'
type='text/css' href='style/style.css'>";
        out.println("<html>");
        out.println("<head><title>Profile in
detail</title>"+cssTag+cssTag1+"</head>");
        out.println("<body>");
        out.println("<div class=\"center\">");
        out.println("<h1> <Center> Profile of User
<center> </h1><br>");
        out.println("<table id=\"user\">");
        out.println("<tr> <th>Username</th>
<th>Password</th> <th>Full Name</th> <th>Email</th></tr>");

        while(rs.next()) {
            String s1 = rs.getString("username");
            String s2 = rs.getString("password");
            String s3 = rs.getString("fullname");
            String s4 = rs.getString("email");
            out.println("<tr> <td>"+s1+"</td>" +
"<td>"+s2+"</td>" + "<td>"+s3+"</td>" +
"<td>"+s4+"</td>"+ "</tr>");
        }
        out.println("</table>");
        out.println("<form action=\"Logout\"><br> <input
type=\"submit\" value=\"Logout\">");
        out.println("</div></body></html>");
    }

    catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

.....

Logoutjava

```

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

```

```

import java.sql.*;

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

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        HttpSession session=request.getSession(false);
        session.invalidate();
        String cssTag="<link rel='stylesheet' type='text/css'
href='style/style2.css'>";
        String cssTag1="<link rel='stylesheet'
type='text/css' href='style/style.css'>";
        out.println("<html>");

out.println("<head><title>Logout</title>" +cssTag+cssTag1+"</hea
d>");
        out.println("<body>");
        out.println("<div class=\"center\">");

        out.println("<h2>Logged out</h2><br><br>");
        out.println("<form action=\"index.html\"><br>
<input type=\"submit\" value=\"Login\">");

        out.println("</div></body></html>");
    }
}

```

Web.xml:

```

<web-app>
    <servlet>
        <servlet-name>Login</servlet-name>
        <servlet-class>Login</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>Login</servlet-name>
        <url-pattern>/Login</url-pattern>
    </servlet-mapping>

```

```
<servlet>
    <servlet-name>Logout</servlet-name>
    <servlet-class>Logout</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>Logout</servlet-name>
    <url-pattern>/Logout</url-pattern>
</servlet-mapping>

<servlet>
    <servlet-name>Profile</servlet-name>
    <servlet-class>Profile</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>Profile</servlet-name>
    <url-pattern>/Profile</url-pattern>
</servlet-mapping>
</web-app>
```

Style1.css:

```
div.form {
    display: block;
    text-align: center;
}

form {
    display: inline-block;
    margin-left: auto;
    margin-right: auto;
    text-align: left;
}
```

Style2.css:

```
.center {
    margin-left: auto;
    margin-right: auto;
}
```

```
body {  
    background-color: aquamarine;  
}
```

.....

Style.css:

```
body {  
    background-color: yellow;  
    text-align: center;  
}
```

```
div {  
    display: inline-block;  
    margin-left: auto;  
    margin-right: auto;  
    text-align: left;  
}
```

```
#user {  
    font-family: Arial, Helvetica, sans-serif;  
    border-collapse: collapse;  
    width: 100%;  
}
```

```
#user td,  
#user th {  
    border: 1px solid #ddd;  
    padding: 8px;  
}
```

```
#user tr:nth-child(even) {  
    background-color: #f2f2f2;  
}
```

```
#user tr:nth-child(odd) {  
    background-color: cyan;  
}
```

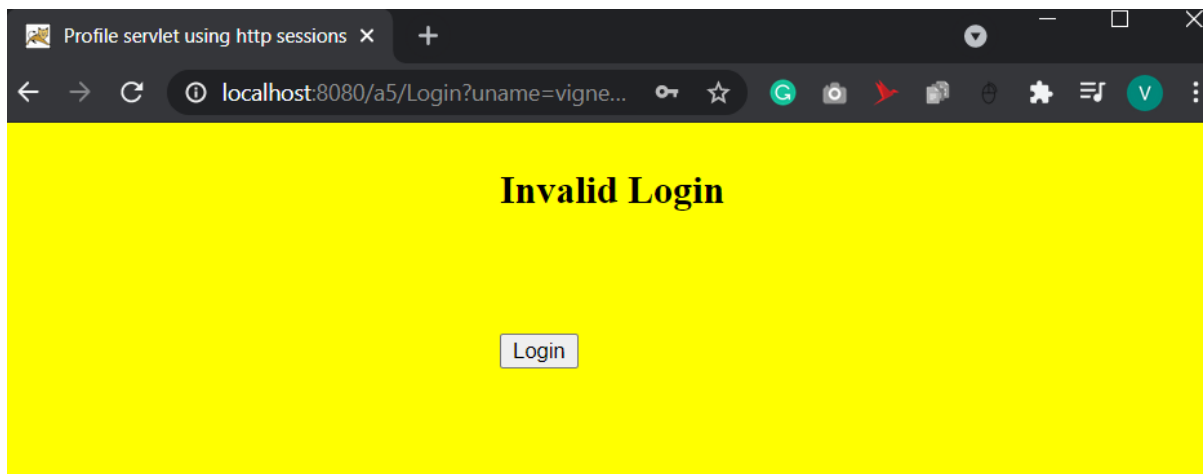
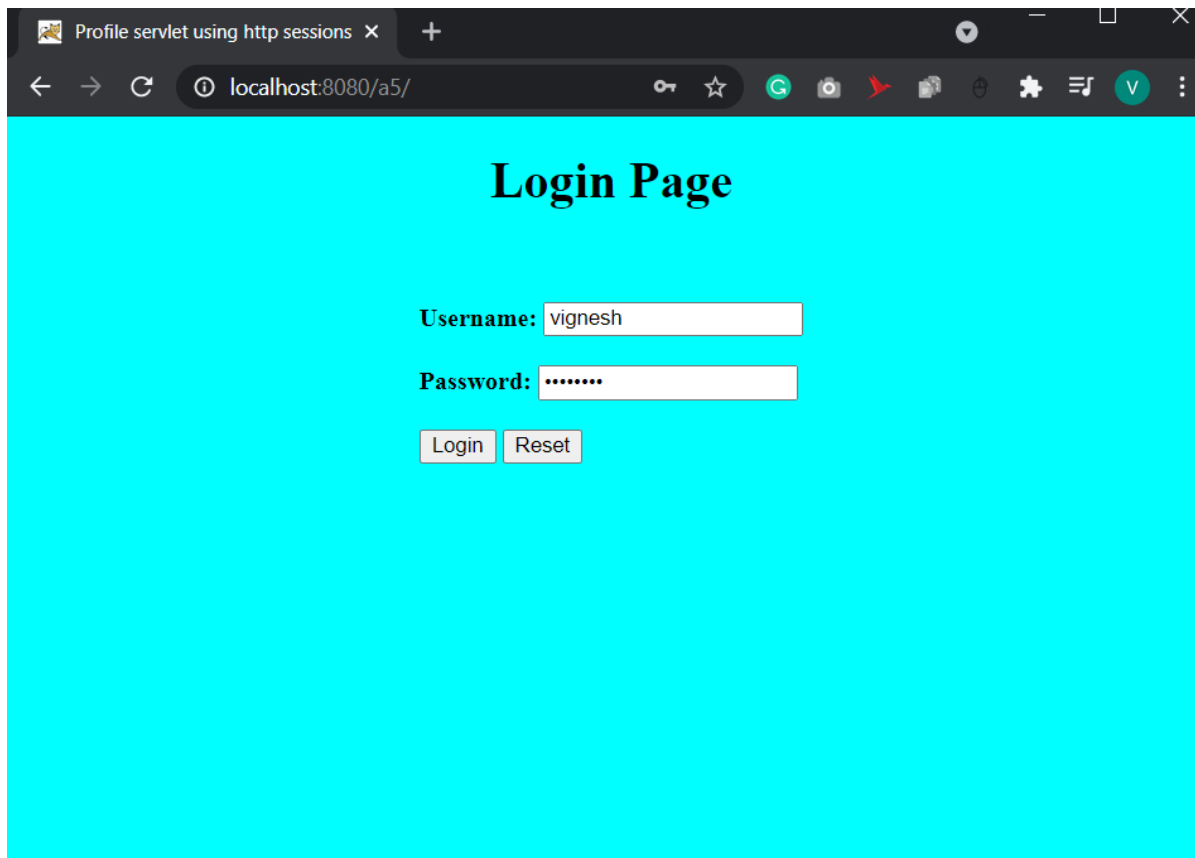
```
#user tr:hover {  
    background-color: red;  
}
```

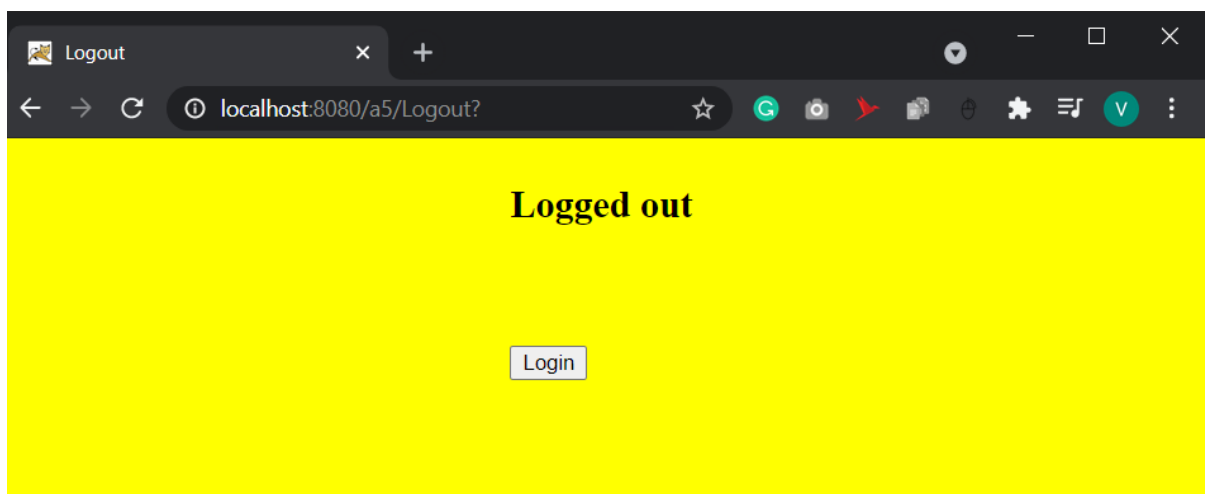
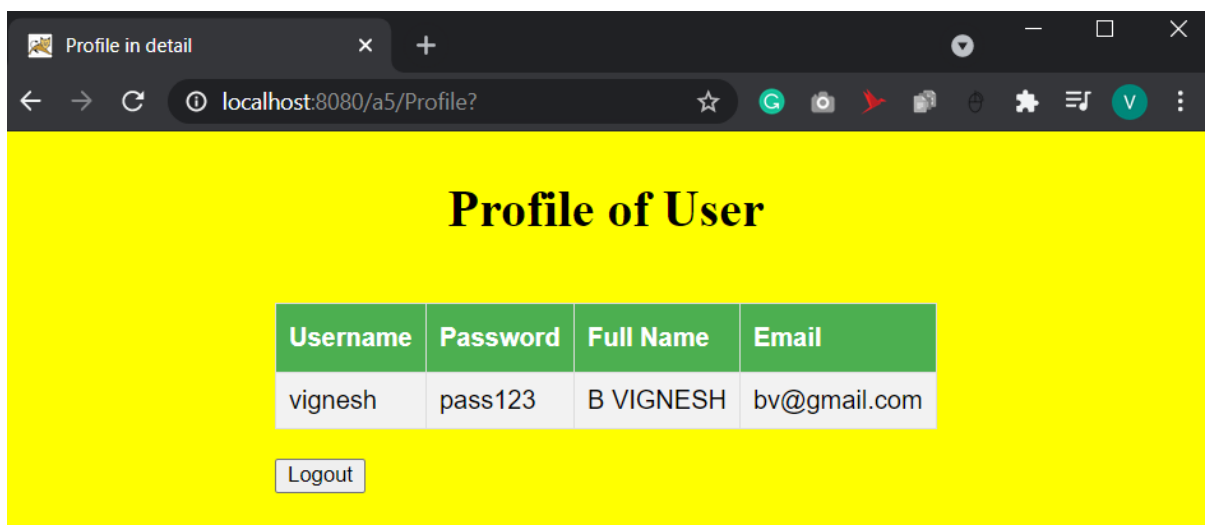
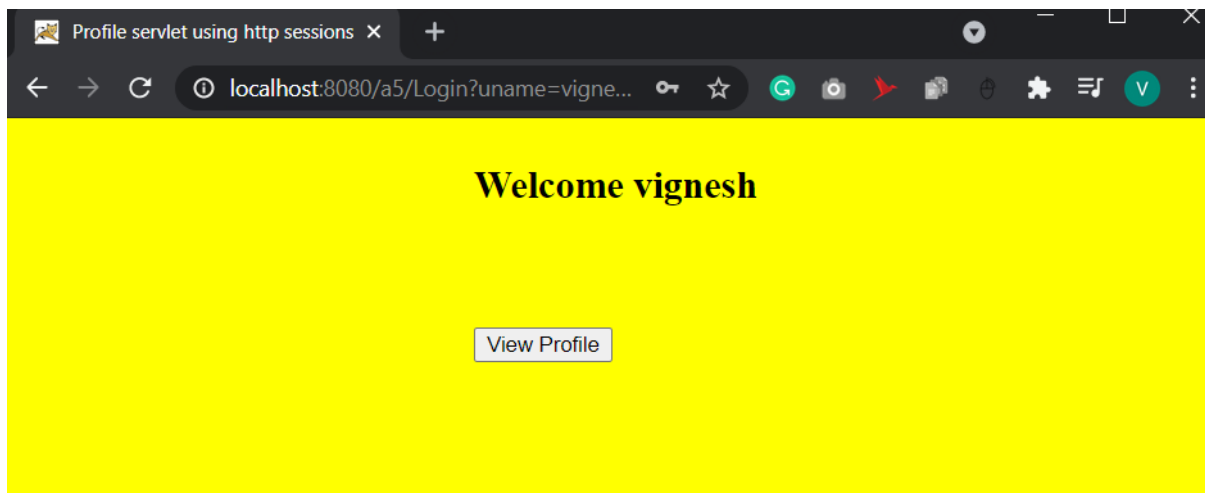
```
#user th {
```



```
padding-top: 12px;  
padding-bottom: 12px;  
text-align: left;  
background-color: #4caf50;  
color: white;  
}
```

Output Screenshots:





```
mysql> use profiledb
Database changed
mysql> select * from profiledetails;
```

username	password	fullname	email
vignesh	pass123	B VIGNESH	bv@gmail.com
gvp	pass245	gv prakash	gv@gmail.com

```
2 rows in set (0.00 sec)
```

Directory Structure:

