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CSE-C
185001143

Assignment 5-Implement Profile Servlet using Http Sessions.

Code:

Index.html

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Login Page</title>
    <link rel="stylesheet" href="login_style.css">
  </head>
  <body>
    <form class="box" id="login" action="http://localhost:8080/Profile/LoginServlet">
      <h1>Login</h1>
      <input type="text" name="username" placeholder="Enter Username" required>
      <input type="password" name="password" placeholder="Enter Password" required>
      <input type="submit" name="login" value="Login">
      <input type="reset" name="reset" value="Clear">
      <div class='backDiv'><a
href='http://localhost:8080/Profile/LogoutServlet'>Logout</a></div>
    </form>
  </body>
</html>
```

Login_style.css

```
html {
  background: url(clouds.jpg) no-repeat center center fixed;
  -webkit-background-size: cover;
  -moz-background-size: cover;
  -o-background-size: cover;
  background-size: cover;
}
h1{
  text-align: center;
  font-family: sans-serif;
  font-weight: 500;
  color: Aqua;
}
```

```
.box{
  width: 300px;
  padding: 40px;
  position: absolute;
  top:50%;
  left: 50%;
  transform: translate(-50%,-50%);
  background: #191919;
  border-radius: 16px;
  text-align: center;
}
.box input[type="text"],
.box input[type="password"]{
  border:0;
  background: none;
  margin: 10px auto;
  border: 2px solid #3498db;
  font-family: menlo;
  text-align: center;
  padding: 14px 10px;
  width: 200px;
  outline: none;
  color: white;
  border-radius: 24px;
  transition: 0.25s;
}

.box input[type="text"]:focus,
.box input[type="password"]:focus{
  width: 280px;
  border-color: #2ecc71;
}
.box input[type="submit"] {
  border:0;
  background: none;
  display: block;
  margin: 10px auto;
  border: 2px solid #2ecc71;
  font-family: menlo;
  text-align: center;
  padding: 14px 40px;
  outline: none;
  color: white;
```

```
border-radius: 24px;
transition: 0.25s;
cursor: pointer;
}

.box input[type="submit"]:hover{
  background: #2ecc71;
}
.box input[type=reset] {
  border:0;
  background: none;
  margin: 2px auto;
  border: 2px solid #f53b57;
  font-family: menlo;
  text-align: center;
  padding: 8px 20px;
  outline: none;
  color: white;
  border-radius: 24px;
  transition: 0.25s;
  cursor: pointer;
}

.box input[type=reset]:hover{
  background: #f53b57;
}

.backDiv{
  text-align: center;
  padding: 10px 1px;
  background: none;
  border: 2px solid #00a8ff;
  border-radius: 24px;
  margin: 5px 100px;
  cursor: pointer;
  transition: 0.25s;
}
.backDiv:hover{
  background: #00a8ff;
}
a{
  font-family: menlo;
  color: white;
}
```

```
a:link {
    text-decoration: none;
}
```

```
a:visited {
    text-decoration: none;
}
```

```
a:hover {
    text-decoration: none;
}
```

```
a:active {
    text-decoration: none;
}
```

LoginServlet.java

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

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

```
        PrintWriter out = response.getWriter();
        String username = request.getParameter("username");
        String pass = request.getParameter("password");
        HttpSession session = request.getSession();
        session.setAttribute("Username",username);
```

```
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/Profiles","root","crashgoku17");
            Statement stmt = conn.createStatement();
            String sql = "select * from profiles where username = '" + username + "' and password = '"
+ pass + "'";
```

```
            ResultSet rs = stmt.executeQuery(sql);
```

```
            if(rs.next()) {
```

```

        response.setContentType("text/html");
        out.println("<html><head><title>Welcome!</title><link rel='stylesheet'
href='welcome_style.css'></head>");
        out.println("<body>");
        out.println("<h1 class='fade-in'> Welcome, "+username+"</h1><br>");
        // out.println("<p class='center'>Hello</p>");
        out.println("<form class='form1' id='LoginServlet'
action='http://localhost:8080/Profile/ProfileServlet'>");
        out.println("<input type='submit' name='View' value='View Profile in Details'>");
        out.println("</form>");
        out.println("<br><br>");
        out.println("</body></html>");
    }
    else {
        out.println("No such record found<br>");
    }

    stmt.close();
    conn.close();

        } catch (SQLException sql) {
            sql.printStackTrace();
            out.println(sql);
        } catch (Exception e) {
            e.printStackTrace();
            out.println(e);
        }
    }
}

```

Welcome_style.css

```

html{
    background: url(buildings.jpg) no-repeat center center fixed;
    -webkit-background-size: cover;
    -moz-background-size: cover;
    -o-background-size: cover;
    background-size: cover;
}
.form1{
    position: absolute;
    top: 55%;
    left: 52%;
    transform: translate(-50%,-50%);
}

```

```
}
input[type='submit']{
  background: none;
  border: 2px solid white;
  font-family: menlo;
  border-radius: 24px;
  text-align: center;
  padding: 10px 10px;
  font-size: 20px;
  color: white;
  transition: 0.25s;
  outline: none;
  cursor: pointer;
}

input[type='submit']:hover{
  background: white;
  color: black
}

.fade-in {
display: inline-block;
font-family: 'menlo';
font-size: 60px;
color: #f5f6fa;
position: absolute;
top: 45%;
left: 50%;
transform: translate(-50%, -50%);
margin: 0 20px;
opacity: 1;
animation: fadeIn ease 2s;
-webkit-animation: fadeIn ease 2s;
}

@keyframes fadeIn {
0% {opacity: 0;}
100% {opacity: 1;}
}

@-webkit-keyframes fadeIn {
0% {opacity: 0;}
100% {opacity: 1;}
}
```

ProfileServlet.java

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

public class ProfileServlet extends HttpServlet{
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException,IOException{
        PrintWriter out = response.getWriter();
        HttpSession session = request.getSession();
        String username = (String)session.getAttribute("Username");

        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/Profiles","root","crashgoku17");
            Statement stmt = conn.createStatement();
            String sql = "select * from profiles where username = '" + username + "'";
            ResultSet rs = stmt.executeQuery(sql);
            if(rs.next()){
                String name = rs.getString("name");
                String addr = rs.getString("address");
                int age = rs.getInt("age");
                out.println("<html><head><title>Profile Page</title>");
                out.println("<link rel='stylesheet' href='profile_style.css'></head>");
                out.println("<body><h1 class='fade-in'>Welcome, "+username+" to the profile
page</h1>");
                out.println("<p class='disp'>Name: "+name+"</p>");
                out.println("<p class='disp'>Age: "+String.valueOf(age)+"</p>");
                out.println("<p class='disp'>Address: "+addr+"</p>");
                out.println("<div class='backDiv'><a href='index.html'>Login Page</a></div>");
                out.println("</body></html>");
            }
            else {
                out.println("No such record found");
            }

            stmt.close();
            conn.close();

        } catch (SQLException sql) {
```

```

        sql.printStackTrace();
        out.println(sql);
    } catch (Exception e) {
        e.printStackTrace();
        out.println(e);
    }
}
}
}

```

Profile style.css

```

html{
    background: url(bluetree.jpg) no-repeat center center fixed;
    -webkit-background-size: cover;
    -moz-background-size: cover;
    -o-background-size: cover;
    background-size: cover;
}

```

```

.disp{
    text-align: center;
    font-family: menlo;
    font-size: 35px;
    font-weight: 100;
    color: white;
    opacity: 1;
    animation: fadeIn ease 2s;
    -webkit-animation: fadeIn ease 2s;
}

```

```

.backDiv{
    margin: auto;
    text-align: center;
    padding: 10px 15px;
    background: none;
    border: 2px solid #00a8ff;
    border-radius: 24px;
    margin: 0px 500px;
    cursor: pointer;
    transition: 0.25s;
}

```

```

.backDiv:hover{
    background: #00a8ff;
}

```

```

a{

```



```
font-family: menlo;
color: white;
}
a:link {
text-decoration: none;
}

a:visited {
text-decoration: none;
}

a:hover {
text-decoration: none;
}

a:active {
text-decoration: none;
}

.fade-in {
display: inline-block;
font-family: 'menlo';
font-size: 60px;
font-weight: 500;
color: #f5f6fa;
text-align: center;
margin: 80px 280px 50px;
opacity: 1;
animation: fadeIn ease 2s;
-webkit-animation: fadeIn ease 2s;
}
@keyframes fadeIn {
0% {opacity:0;}
100% {opacity:1;}
}

@-webkit-keyframes fadeIn {
0% {opacity:0;}
100% {opacity:1;}
}
```

LogoutServlet.java

```
import java.util.*;
import jakarta.servlet.http.*;
```

```

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

public class LogoutServlet extends HttpServlet{
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException,IOException{
        PrintWriter out = response.getWriter();
        HttpSession session = request.getSession();
        session.invalidate();
        out.println("<html><head><title>Logout</title>");
        out.println("<link rel='stylesheet' href='logout_style.css'></head>");
        out.println("<h1 class='fade-in'>Successfully Logged Out</h1>");
        out.println("</body></html>");
    }
}

```

Logout_style.css

```

html{
    background: url(sunset.jpg) no-repeat center center fixed;
    -webkit-background-size: cover;
    -moz-background-size: cover;
    -o-background-size: cover;
    background-size: cover;
}

```

```

.fade-in {
display: inline-block;
font-family: 'menlo';
font-size: 60px;
color: #f5f6fa;
position: absolute;
top: 45%;
left:50%;
transform: translate(-50%,-50%);
margin: 0 20px;
opacity: 1;
animation: fadeIn ease 2s;
-webkit-animation: fadeIn ease 2s;
}

```

```

@keyframes fadeIn {
0% {opacity:0;}
100% {opacity:1;}
}

```

```
}
```

```
@-webkit-keyframes fadeIn {  
0% {opacity:0;}  
100% {opacity:1;}  
}
```

Web.xml

```
<web-app>  
<servlet>  
<servlet-name>LoginServlet</servlet-name>  
<servlet-class>LoginServlet</servlet-class>  
</servlet>  
<servlet-mapping>  
<servlet-name>LoginServlet</servlet-name>  
<url-pattern>/LoginServlet</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>/ProfileServlet</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>/LogoutServlet</url-pattern>  
</servlet-mapping>  
</web-app>
```

Output:

Database:

```
Profile — mysql -u root -p — 80x24
Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

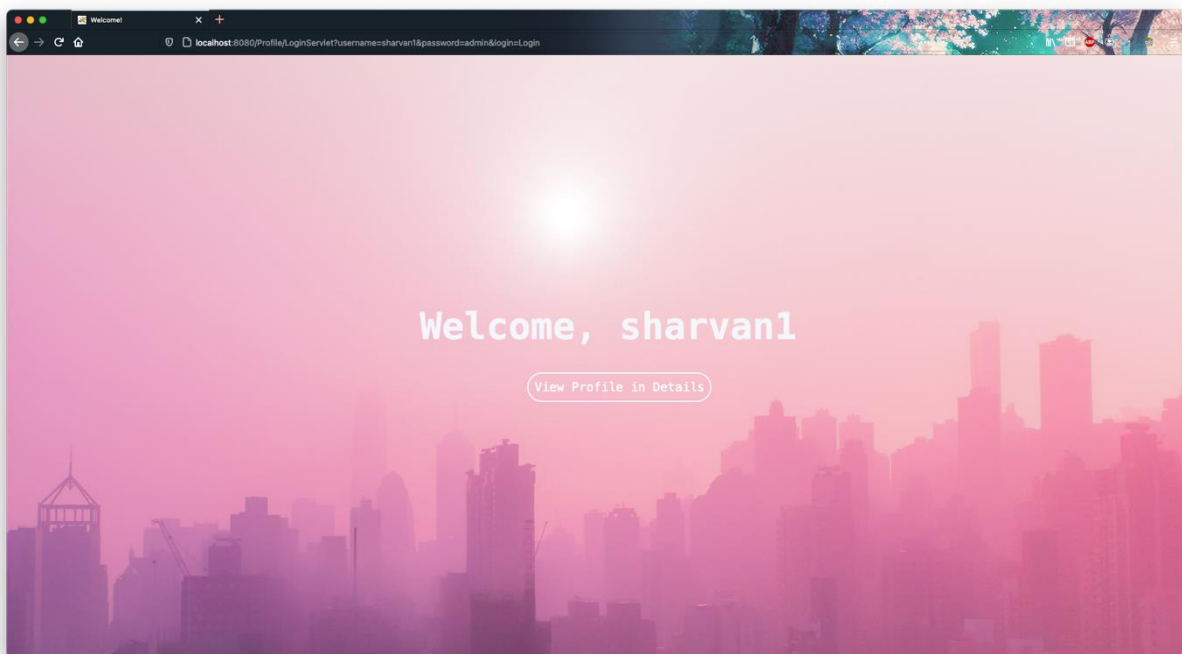
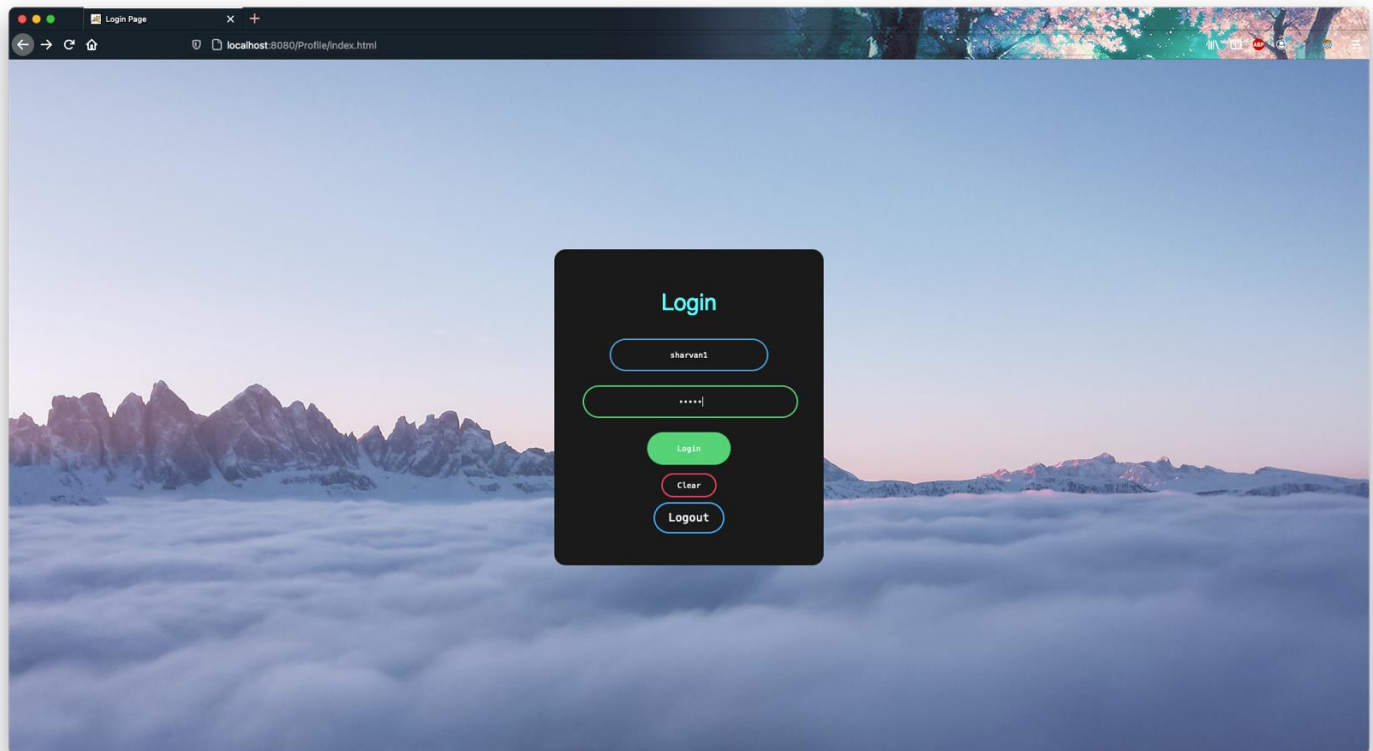
[mysql> use profiles
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

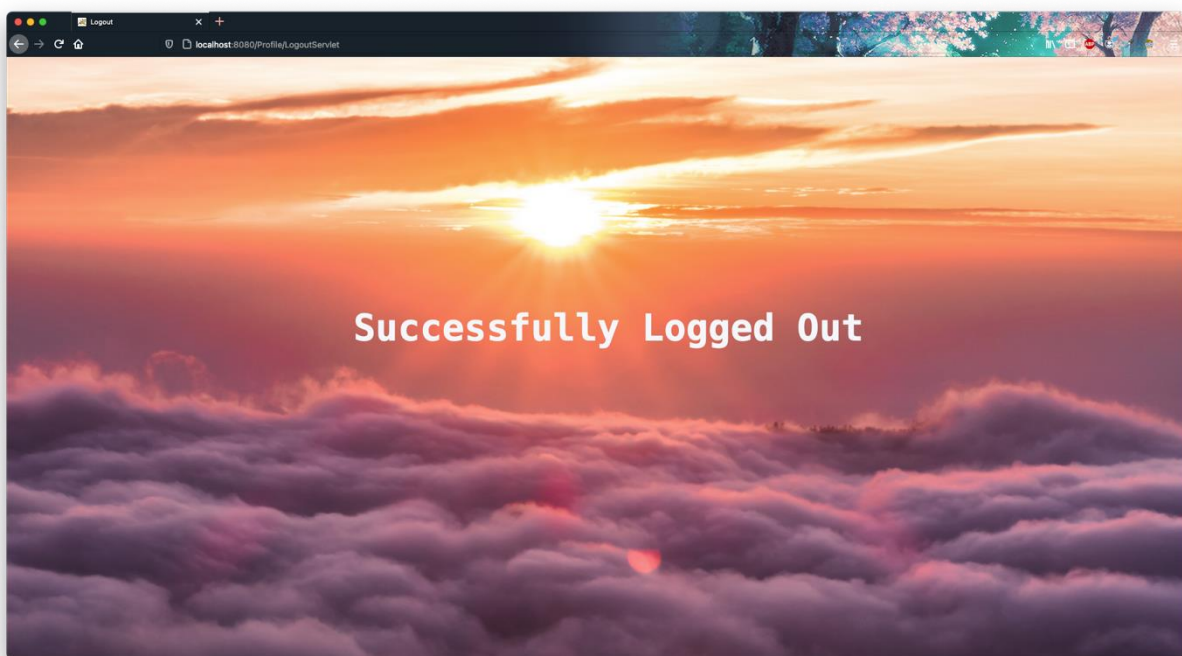
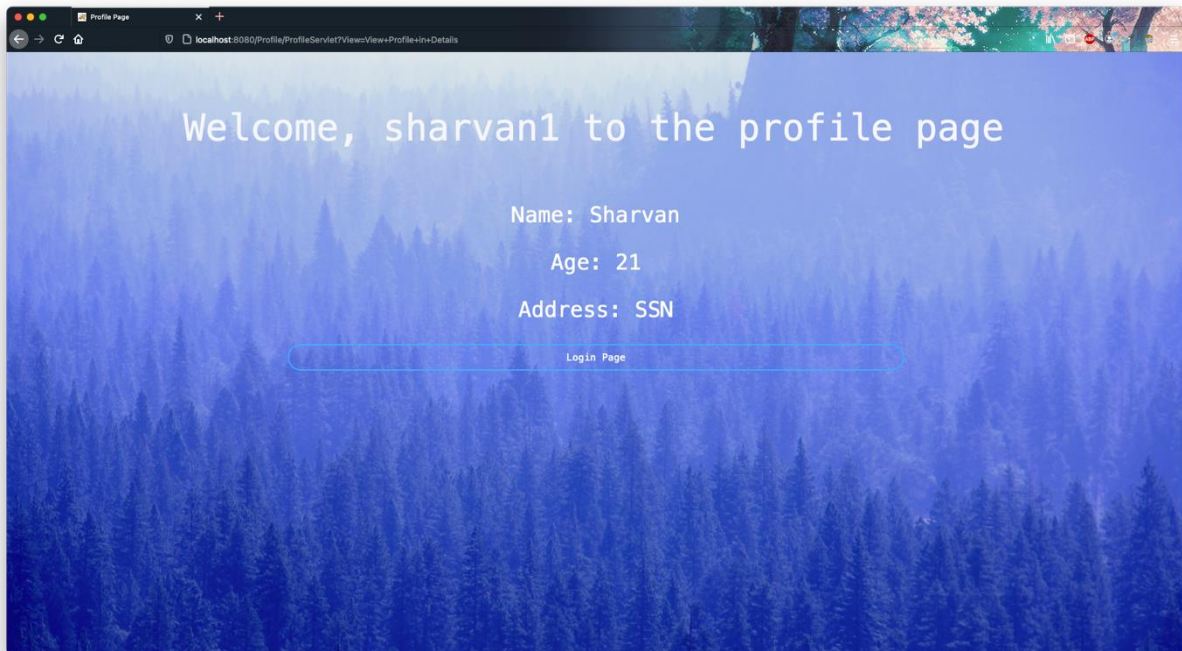
Database changed
[mysql> select * from profiles;

+-----+-----+-----+-----+-----+
| name   | username | password | age  | address |
+-----+-----+-----+-----+-----+
| Sharvan | sharvan1 | admin   | 21   | SSN     |
| Shiva   | shiva1   | $12345  | 22   | SSN     |
| Shashank | shashu1  | abcde   | 20   | SSN     |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

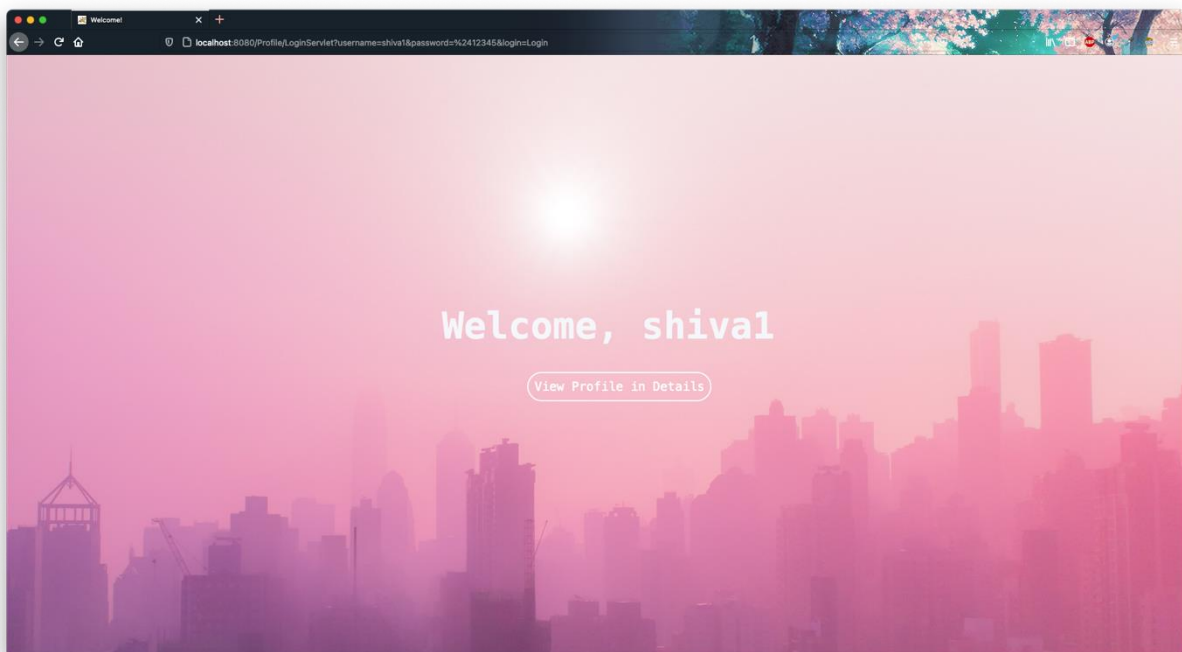
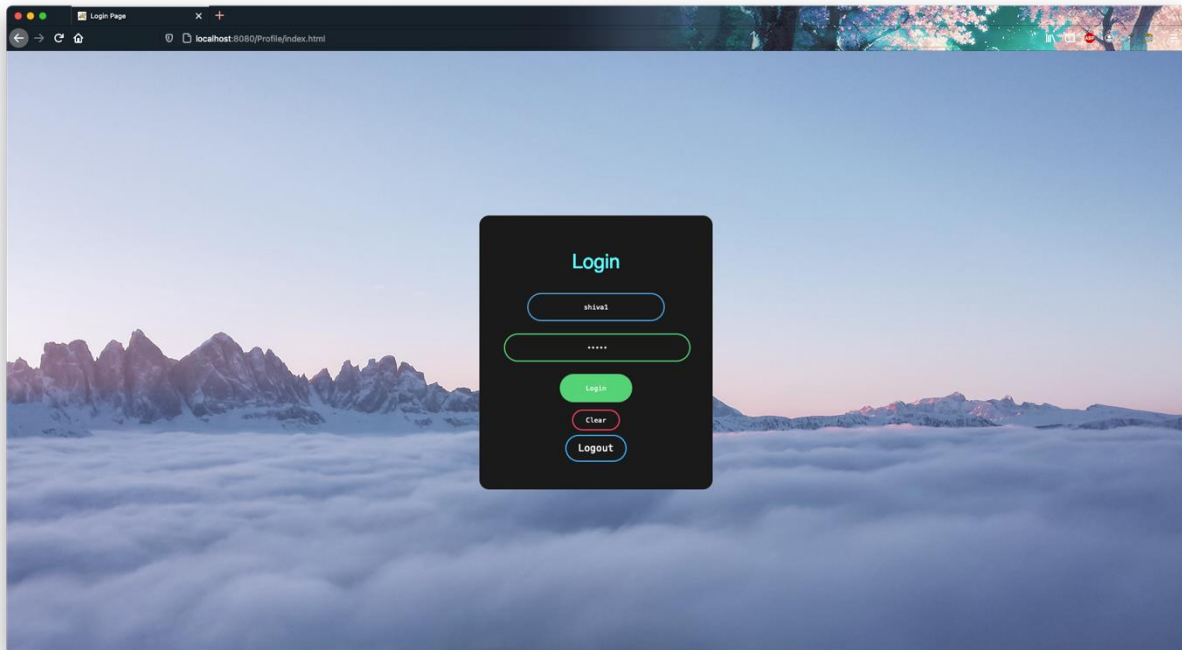
mysql> 
```

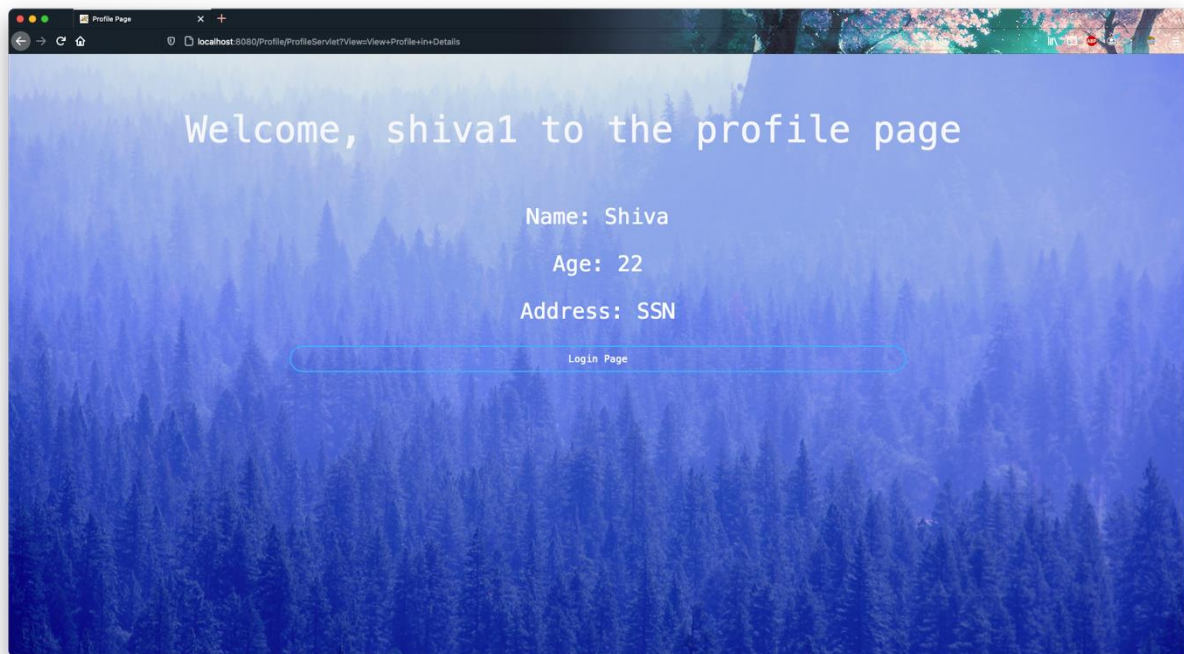
Logging in as sharvan1:





Logging in as shiva1:





Learning Objective:

The profile servlet was implemented using Http Sessions.