***ASSIGNMENT 5***

***UCS 1601 – INTERNET PROGRAMMING***

**NAME: Vishal T**

**REG NUMBER: 185001199**

**DATE: 19/04/2021**

**Exercise 5: Profile Servlet using Session and MySQL**

**SPECIFICATIONS:**

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

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”

**HTML CODE:**

**index.html**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!--Bootstrap CSS

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" crossorigin="anonymous">

      -->

    <title>Profile HTML</title>

    <link rel="stylesheet" href="static/style\_1.css">

  </head>

  <body>

    <div class="box">

      <img src="static/images/pro.png" alt=""  width="150" height="150"> </img>

      <h2>Login</h2>

      <form action="http://localhost:8080/a5/login" method="POST">

        <div class="inputBox">

          <!--<label for="Name">User Name</label> -->

          <input type="text" id="name" name="name" autofocus="autofocus" placeholder="USER NAME" autocomplete="off" required><br><br>

        </div>

        <div class="inputBox">

          <!--<label for="pass">Password </label> -->

          <input type="password" id="pass" name="pass" placeholder="PASSWORD"  autocomplete="off" required><br><br>

        </div>

        <input type="submit" class="submit-btn" value="Login">

      </form>

    </div>

  </body>

</html>

**SERVLET CODE:**

**login.java**

import jakarta.servlet.\*;

import jakarta.servlet.http.\*;

import java.util.\*;

import java.lang.\*;

import java.io.\*;

import java.sql.\*;

public class login extends HttpServlet{

  public void doPost(HttpServletRequest request, HttpServletResponse response)throws ServletException, IOException{

    String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

    String DB\_URL = "jdbc:mysql://localhost:3306/A5";

    String USER = "root";

    String PASS = "db@321v";

    response.setContentType("text/html");

    PrintWriter pw = response.getWriter();

    String uname = (String)request.getParameter("name");

    String pass = request.getParameter("pass");

    Connection conn = null;

    int flag = 0;

    try{

      conn = DriverManager.getConnection(DB\_URL,USER,PASS);

      String search = "SELECT passw FROM Profile WHERE name='"+uname+"'";

      Statement stmt = conn.createStatement();

      ResultSet rs = stmt.executeQuery(search);

      if(rs.next()){

        String password = rs.getString("passw");

        if(password.equals(pass)){

          flag = 1;

          HttpSession session = request.getSession();

          session.setAttribute("name", uname);

          response.sendRedirect("/a5/Welcome");

        }

      }

      if(flag == 0){

        pw.println("<script>");

        pw.println("alert(\"Wrong UserName or Password!!!\")");

        pw.println("location='http://localhost:8080/a5/'");

        pw.println("</script>");

      }

    }

    catch(Exception E){

      E.printStackTrace();

    }

    pw.close();

  }

}

**logout.java:**

import jakarta.servlet.\*;

import jakarta.servlet.http.\*;

import java.util.\*;

import java.lang.\*;

import java.io.\*;

public class logout extends HttpServlet{

  public void doGet(HttpServletRequest request, HttpServletResponse response)throws ServletException, IOException{

    response.setContentType("text/html");

    PrintWriter pw = response.getWriter();

    pw.println("<html><head><meta charset='utf-8'><meta name='viewport' content='width=device-width, initial-scale=1, shrink-to-fit=no'>");

    pw.println("<title>Welcome</title>");

    pw.println("<style>h1{color:black; margin-left:auto; margin-right:auto; text-align:center; font-size: 1em; font-weight: bold;}</style></head>");

    pw.print("<body><h1>");

    HttpSession session = request.getSession(false);

    String user = (String)session.getAttribute("name");

    session.invalidate();

    pw.print("<center>....... Sucessfully Logged Out "+user+" ...........<center>");

    pw.print("</body></html>");

    pw.close();

  }

}

**Profile.java:**

import jakarta.servlet.\*;

import jakarta.servlet.http.\*;

import java.util.\*;

import java.lang.\*;

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 pw = response.getWriter();

    HttpSession session = request.getSession();

    String user = (String)session.getAttribute("name");

    pw.println("<html><head><meta charset='utf-8'><meta name='viewport' content='width=device-width, initial-scale=1, shrink-to-fit=no'>");

    pw.println("<title>Profile</title>");

    pw.println("<style>h1{color:black; margin-left:auto; margin-right:auto; text-align:center; font-size: 3em;justify-content: space-between;}</style><link rel='stylesheet' href='static/style\_2.css'></head>");

    pw.print("<body><center><h1>");

    pw.print("Profile Page");

    pw.println("<button style='width:10%; justify-content: center; margin-right: 0px; margin-left:80%;'><a href='/a5/Logout'>Log Out</a></button></h1></center>");

    if(user != null)

    {

      String JDBC\_DRIVER="com.mysql.jdbc.Driver";

      String PASS="db@321v";

      String USER="root";

      String DB\_URL="jdbc:mysql://localhost:3306/A5";

      Connection conn = null;

      try{

        conn = DriverManager.getConnection(DB\_URL,USER,PASS);

        String search = "SELECT \* FROM Profile WHERE name='"+user+"'";

        Statement stmt = conn.createStatement();

        ResultSet rs = stmt.executeQuery(search);

        rs.next();

        pw.print("<table border=\"2px dotted green\" align=\"center\"><tr><th>Name</th><td>"+rs.getString("name")+"</td></tr><tr><th>Date of Birth</th><td>"+rs.getString("dob")+"</td></tr><tr><th>Address</th><td>"+rs.getString("address")+"</td></tr><tr><th>Gender</th><td>"+rs.getString("gender")+"<tr><th>Marital Status</th><td>"+rs.getString("marstatus")+"</td></tr><tr><th>Age</th><td>"+rs.getString("age")+"</td></tr><tr><th>Contact</th><td>"+rs.getString("Contact")+"</td></tr></table>");

      }catch(Exception E){

        E.printStackTrace();

      }

    }

    else{

      pw.println("<script>");

      pw.println("alert('Session information not available')");

      pw.println("location='http://localhost:8080/a5/'");

      pw.println("</script>");

    }

    pw.print("</body></html>");

    pw.close();

  }

}

**welcome.java:**

import jakarta.servlet.\*;

import jakarta.servlet.http.\*;

import java.util.\*;

import java.lang.\*;

import java.io.\*;

public class welcome extends HttpServlet{

  public void doGet(HttpServletRequest request, HttpServletResponse response)throws ServletException, IOException{

    response.setContentType("text/html");

    PrintWriter pw = response.getWriter();

    pw.println("<html><head><meta charset='utf-8'><meta name='viewport' content='width=device-width, initial-scale=1, shrink-to-fit=no'>");

    pw.println("<title>Welcome</title>");

    pw.println("<style>h1{color:black; margin-left:auto; margin-right:auto; text-align:center; font-size: 3em;}</style></head>");

    pw.print("<body><h1>");

    HttpSession session = request.getSession(false);

    String user = (String)session.getAttribute("name");

    pw.print("Welcome "+user);

    pw.print("</h1><br><br><br>");

    pw.println("<center><button style='justify-content: center; align-content: center; margin-left: auto; margin-right: auto;'><a href ='/a5/Profile'>View Profile in Detail</a></button><center>");

    pw.print("</body></html>");

    pw.close();

  }

}

**XML CODE:**

**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>Welcome</servlet-name>

<servlet-class>welcome</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Welcome</servlet-name>

<url-pattern>/Welcome</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>

<servlet>

<servlet-name>Logout</servlet-name>

<servlet-class>logout</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Logout</servlet-name>

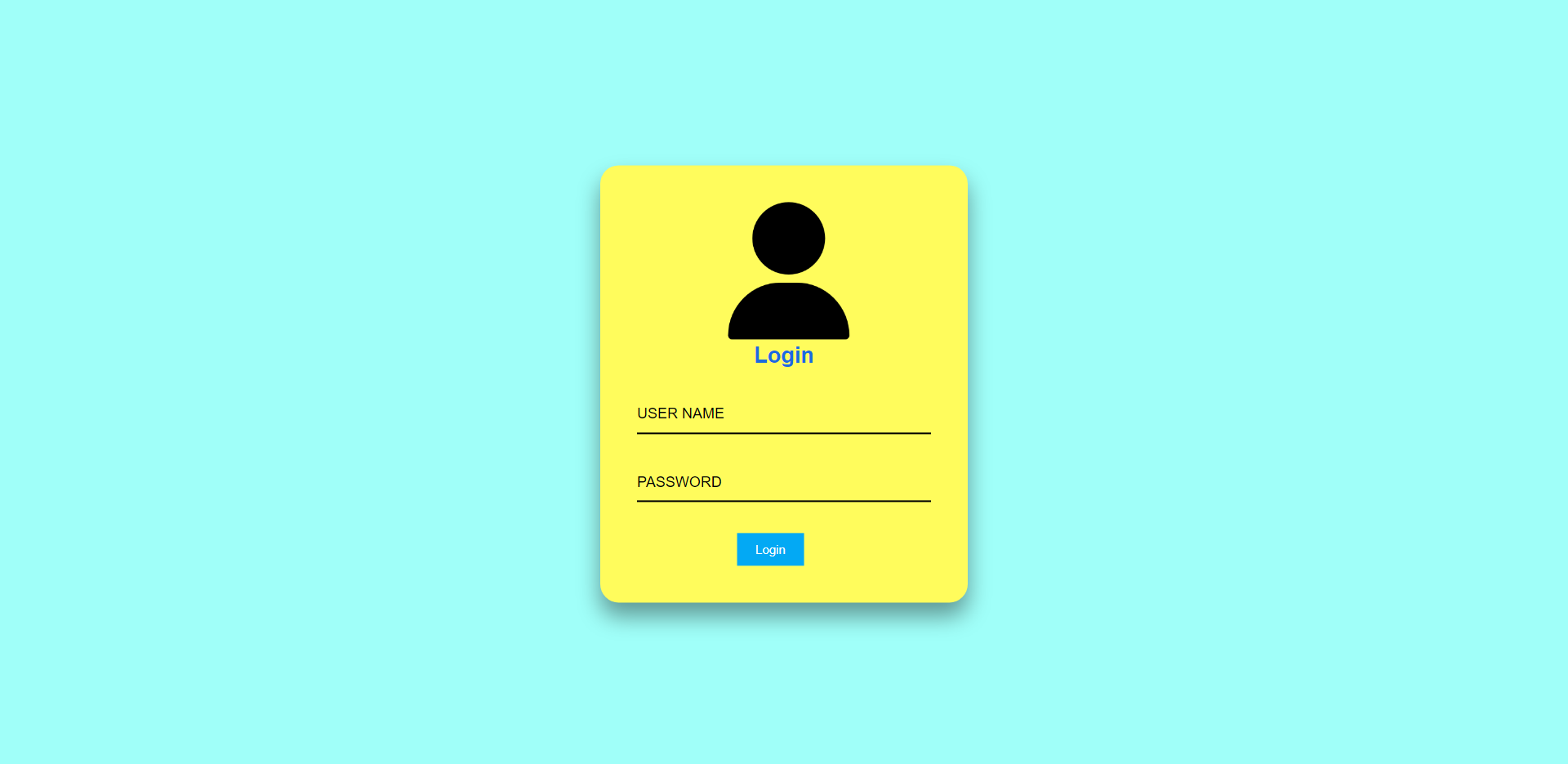
<url-pattern>/Logout</url-pattern>

</servlet-mapping>

</web-app>

**SNAPSHOTS:**

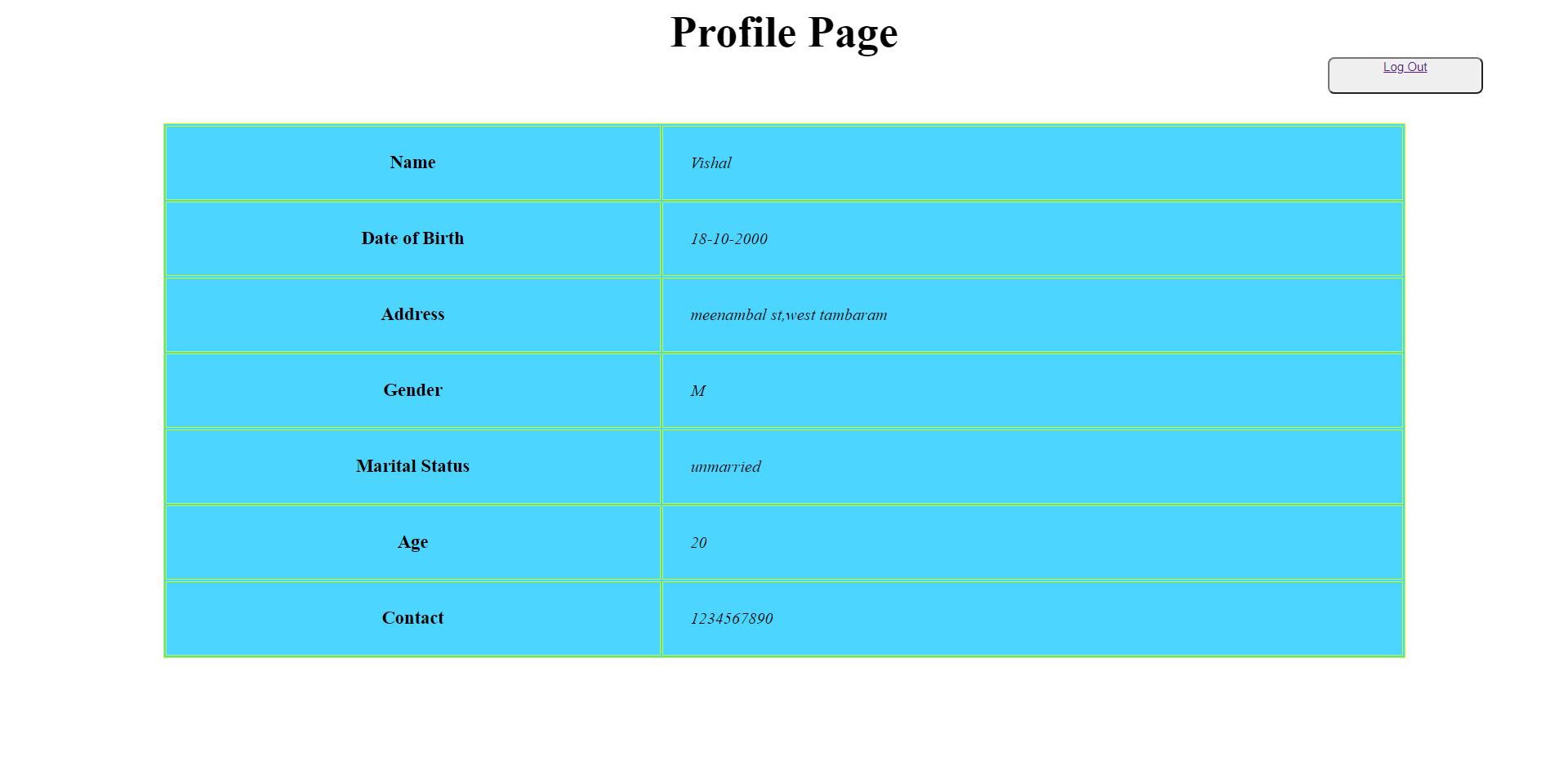
1. index



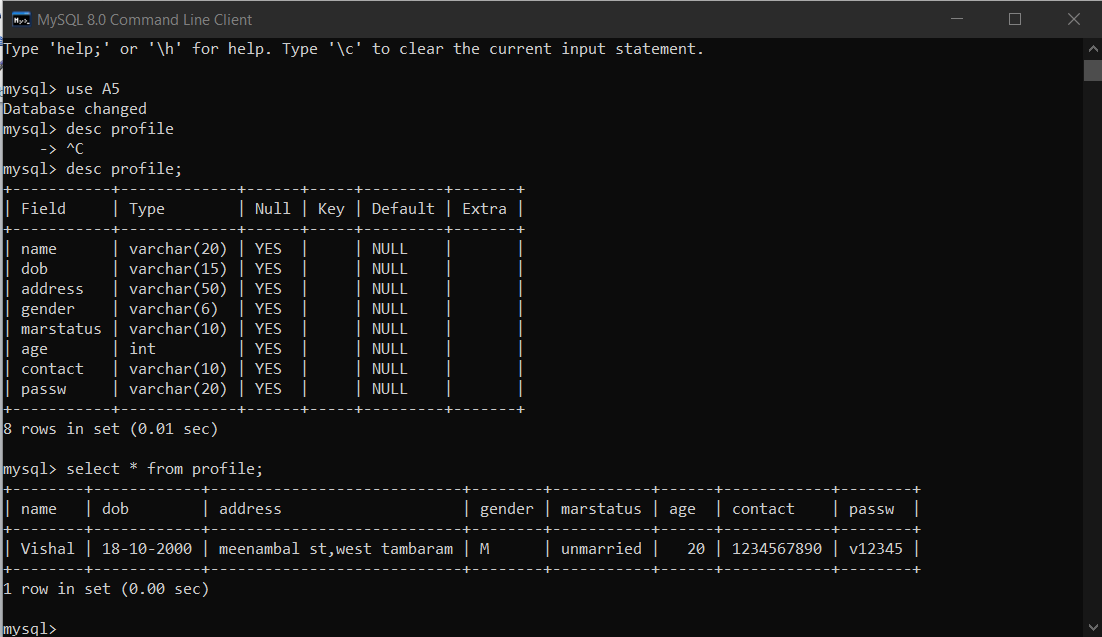
2.welcome page



3. The Table that was generated with the user details.



4. Database content



**Learning outcome:**

* Learned to implement MySql with java servlets.
* Learned to create a login/logout page using java servlets.