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**Skill Week – 14**

**Jdbc-Servlet and JSP**

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/users")

public class UserServlet extends HttpServlet {

private static final String URL = "jdbc:mysql://localhost:3306/mydatabase"; // Change to your database URL

private static final String USERNAME = "root"; // Change to your database username

private static final String PASSWORD = "password"; // Change to your database password

@Override

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

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Connection connection = null;

Statement statement = null;

ResultSet resultSet = null;

try {

// Load JDBC driver

Class.forName("com.mysql.cj.jdbc.Driver");

// Establish connection

connection = DriverManager.getConnection(URL, USERNAME, PASSWORD);

statement = connection.createStatement();

// Execute query

String sql = "SELECT id, name, age FROM users";

resultSet = statement.executeQuery(sql);

// Display results

out.println("<html><body>");

out.println("<h1>User List</h1>");

out.println("<table border='1'><tr><th>ID</th><th>Name</th><th>Age</th></tr>");

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

int age = resultSet.getInt("age");

out.println("<tr><td>" + id + "</td><td>" + name + "</td><td>" + age + "</td></tr>");

}

out.println("</table>");

out.println("<br><a href='index.jsp'>Back to Home</a>");

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

} catch (Exception e) {

e.printStackTrace();

out.println("<p>Error: " + e.getMessage() + "</p>");

} finally {

// Clean up resources

try {

if (resultSet != null) resultSet.close();

if (statement != null) statement.close();

if (connection != null) connection.close();

} catch (Exception e) {

e.printStackTrace();

}

}

}

// Main method for running the JSP page

public static void main(String[] args) throws IOException {

PrintWriter out = new PrintWriter(System.out);

out.println("<html><body>");

out.println("<h1>Welcome to the User Database</h1>");

out.println("<a href='users'>View Users</a>");

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

out.close();

}

}