WebApp

├── src

│ └── com.example.webapp

│ ├── model

│ │ └── User.java

│ ├── dao

│ │ └── UserDAO.java

│ ├── servlet

│ │ └── UserServlet.java

│ └── util

│ └── DBUtil.java

├── WebContent

│ ├── WEB-INF

│ │ ├── web.xml

│ └── index.jsp

│ └── register.jsp

└── lib (JDBC driver and other libraries)

<project xmlns="http://maven.apache.org/POM/4.0.0" ...>

<modelVersion>4.0.0</modelVersion>

<groupId>com.example.webapp</groupId>

<artifactId>webapp</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<!-- Servlet API -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>javax.servlet-api</artifactId>

<version>4.0.1</version>

<scope>provided</scope>

</dependency>

<!-- MySQL JDBC Driver -->

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>8.0.33</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-war-plugin</artifactId>

<version>3.3.1</version>

<configuration>

<warSourceDirectory>WebContent</warSourceDirectory>

</configuration>

</plugin>

</plugins>

</build>

</project>

CREATE TABLE user (

id INT AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(50) NOT NULL,

password VARCHAR(50) NOT NULL

);

package com.example.webapp.util;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBUtil {

public static Connection getConnection() throws SQLException {

String url = "jdbc:mysql://localhost:3306/your\_database";

String user = "your\_username";

String password = "your\_password";

return DriverManager.getConnection(url, user, password);

}

}

package com.example.webapp.dao;

import com.example.webapp.model.User;

import com.example.webapp.util.DBUtil;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.SQLException;

public class UserDAO {

public void registerUser(User user) {

String query = "INSERT INTO user (username, password) VALUES (?, ?)";

try (Connection conn = DBUtil.getConnection();

PreparedStatement stmt = conn.prepareStatement(query)) {

stmt.setString(1, user.getUsername());

stmt.setString(2, user.getPassword());

stmt.executeUpdate();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

package com.example.webapp.servlet;

import com.example.webapp.dao.UserDAO;

import com.example.webapp.model.User;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

import java.io.IOException;

@WebServlet("/register")

public class UserServlet extends HttpServlet {

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

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

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

User user = new User(username, password);

UserDAO userDAO = new UserDAO();

userDAO.registerUser(user);

response.sendRedirect("registerSuccess.jsp");

}

}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>User Registration</title>

</head>

<body>

<h1>Register</h1>

<form action="register" method="POST">

<label for="username">Username:</label>

<input type="text" id="username" name="username" required/><br><br>

<label for="password">Password:</label>

<input type="password" id="password" name="password" required/><br><br>

<button type="submit">Register</button>

</form>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Registration Successful</title>

</head>

<body>

<h1>Registration Successful!</h1>

<a href="index.jsp">Go to Homepage</a>

</body>

</html>

<web-app xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://java.sun.com/xml/ns/javaee

http://java.sun.com/xml/ns/javaee/web-app\_4\_0.xsd"

version="4.0">

<servlet>

<servlet-name>UserServlet</servlet-name>

<servlet-class>com.example.webapp.servlet.UserServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>UserServlet</servlet-name>

<url-pattern>/register</url-pattern>

</servlet-mapping>

</web-app>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Home</title>

</head>

<body>

<h1>Welcome to the Web Application!</h1>

<a href="register.jsp">Register Here</a>

</body>

</html>