WAD-Case Study

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Registration form using Servlets

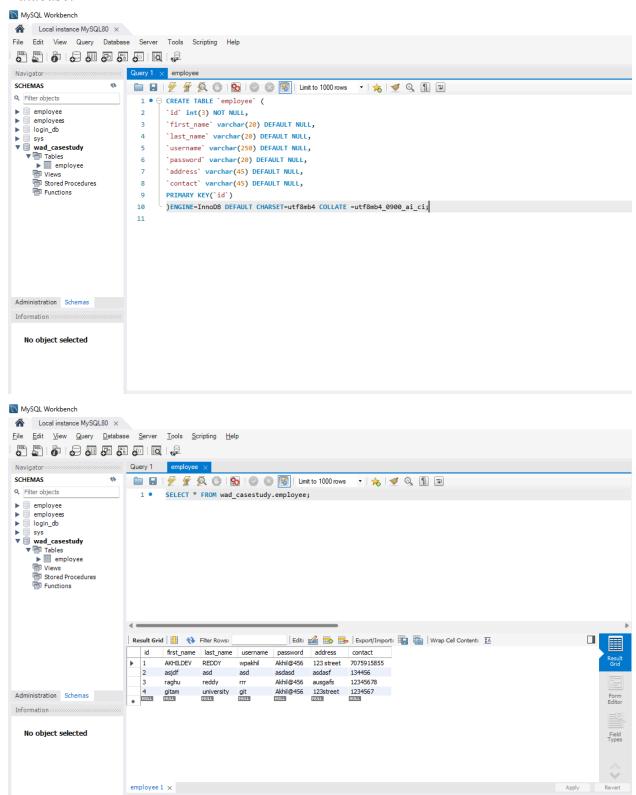
Required tools:

- 1. JSP 2.2+
- 2. IDE Eclipse
- 3. JDK 1.8
- 4. Apache Tomcat 11.0
- 5. JSTL 1.2.1
- 6. Servlet API 2.5
- 7. MySQL mysql-connector-java-8.0.13.jar

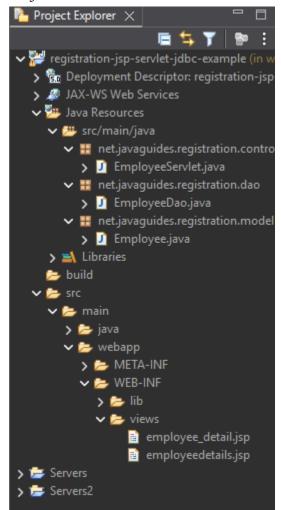
Development Steps:

- 1. Create an Eclipse Dynamic web page
- 2. Add dependencies
- 3. Project structure
- 4. MySQL database structure
- 5. Create a JavaBean Employee.java
- 6. Create a EmployeeDao.java
- 7. Create a EmployeeServlet.java
- 8. Create a employeeregister.jsp
- 9. Create a employeedetail.jsp
- 10. Demo

Database:



Project Structure:



Servlet code:

package net.javaguides.registration.controller;

import jakarta.servlet.ServletException; import jakarta.servlet.annotation.WebServlet; import jakarta.servlet.http.HttpServlet; import jakarta.servlet.http.HttpServletRequest; import jakarta.servlet.http.HttpServletResponse; import java.io.IOException;

import net.javaguides.registration.dao.EmployeeDao; import net.javaguides.registration.model.Employee; /**

```
* Servlet implementation class EmployeeServlet
*/
@WebServlet("/register")
public class EmployeeServlet extends HttpServlet {
       private static final long serialVersionUID = 1L;
       private EmployeeDao employeeDao = new EmployeeDao();
  /**
   * Default constructor.
   */
  public EmployeeServlet() {
       super();
    // TODO Auto-generated constructor stub
  }
       /**
       * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
       */
       protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
              // TODO Auto-generated method stub
              response.getWriter().append("Served at: ").append(request.getContextPath());
              jakarta.servlet.RequestDispatcher dispatcher =
request.getRequestDispatcher("/WEB-INF/views/employeedetails.jsp");
              dispatcher.forward(request, response);
       }
       /**
       * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
       protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
               String firstName = request.getParameter("firstName");
          String lastName = request.getParameter("lastName");
          String UserName = request.getParameter("username");
          String password = request.getParameter("password");
          String address = request.getParameter("address");
          String contact = request.getParameter("contact");
```

```
Employee employee = new Employee();
           employee.setFirstName(firstName);
           employee.setLastName(lastName);
           employee.setUserName(UserName);
           employee.setPassword(password);
           employee.setContact(contact);
           employee.setAddress(address);
           try {
              employeeDao.registerEmployee(employee);
            } catch (Exception e) {
             // TODO Auto-generated catch block
              e.printStackTrace();
            }
           jakarta.servlet.RequestDispatcher dispatcher =
request.getRequestDispatcher("/WEB-INF/views/employee detail.jsp");
                     dispatcher.forward(request, response);
       }
}
```

EmployeeDao.java code:

```
package net.javaguides.registration.dao;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import net.javaguides.registration.model.Employee;
public class EmployeeDao {
```

```
public int registerEmployee(Employee employee) throws ClassNotFoundException {
    String INSERT USERS SQL = "INSERT INTO employee" +
       " (first name, last name, username, password, address, contact) VALUES " +
       "(?, ?, ?, ?,?,?);";
    int result = 0;
     Class.forName("com.mysql.jdbc.Driver");
     try (Connection connection = DriverManager
       .getConnection("jdbc:mysql://localhost:3306/wad casestudy?useSSL=false", "root",
"Akhil@456");
       // Step 2:Create a statement using connection object
       PreparedStatement preparedStatement =
connection.prepareStatement(INSERT USERS SQL)) {
       preparedStatement.setString(1, employee.getFirstName());
       preparedStatement.setString(2, employee.getLastName());
       preparedStatement.setString(3, employee.getUserName());
       preparedStatement.setString(4, employee.getPassword());
       preparedStatement.setString(5, employee.getAddress());
       preparedStatement.setString(6, employee.getContact());
       System.out.println(preparedStatement);
       // Step 3: Execute the query or update query
       result = preparedStatement.executeUpdate();
     } catch (SQLException e) {
       e.printStackTrace();
    return result;
  }}
Employee.java code:
package net.javaguides.registration.model;
public class Employee {
       private String firstName;
       private String lastName;
```

```
private String userName;
private String password;
private String address;
private String contact;
public String getFirstName() {
       return firstName;
public void setFirstName(String firstName) {
       this.firstName = firstName;
public String getLastName() {
       return lastName;
public void setLastName(String lastName) {
       this.lastName = lastName;
public String getUserName() {
       return userName;
public void setUserName(String userName) {
       this.userName = userName;
public String getPassword() {
       return password;
public void setPassword(String password) {
       this.password = password;
public String getAddress() {
       return address;
public void setAddress(String address) {
       this.address = address;
public String getContact() {
       return contact;
public void setContact(String contact) {
       this.contact = contact;
}}
```

Employeedetails.jsp:

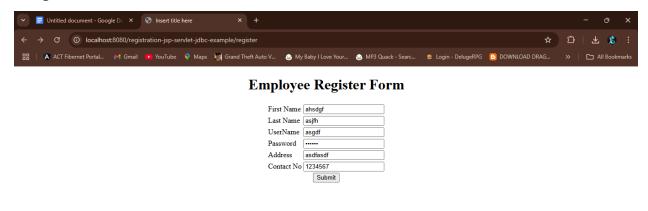
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<div align="center">
<h1>Employee Register Form</h1>
<form action="<%= request.getContextPath() %>/register" method="post">
 First Name
  <input type="text" name="firstName" />
 Last Name
  <input type="text" name="lastName" />
 UserName
  <input type="text" name="username" />
 Password
  <input type="password" name="password" />
 Address
  <input type="text" name="address" />
 Contact No
  <input type="text" name="contact" />
```

```
<input type="submit" value="Submit" />
</form>
</div>
</body>
</html>
```

Employee_details.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1>Employee successfully registered</h1>
</body>
</html>
```

Output:





Employee successfully registered

