

com.faculty.controller

package com.faculty.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 com.faculty.model.Faculty;

import com.faculty.dao.FacultyDao;

/**

* Servlet implementation class AddFacultyServlet

*/

@WebServlet("/AddFaculty")

public class AddFacultyServlet **extends**

HttpServlet {

private static final long *serialVersionUID* =
 1L;

/**

* @see HttpServlet#HttpServlet()

*/

```

/**
 * @see
 HttpServlet#doPost(HttpServletRequest req,
 HttpServletResponse res)throws
 ServletException{
    */

    protected void doPost(HttpServletRequest
req, HttpServletResponse res) throws
ServletException, IOException {
        Faculty f=new Faculty();

        f.setId(Integer.parseInt(req.getParameter("id")
));
        f.setName(req.getParameter("name"));

        f.setDepartment(req.getParameter("department
"));
        f.setEmail(req.getParameter("email"));

        f.setQualification(req.getParameter("qualificat
ion"));

        FacultyDao FacultyDao=new
FacultyDao();
        FacultyDao.insertFaculty(f);
        res.sendRedirect("listFaculty.jsp");

```

```
}}
```

com.faculty.dao

```
package com.faculty.dao;
```

```
import java.sql.*;
```

```
import java.util.*;
```

```
import com.faculty.model.Faculty;
```

```
public class FacultyDao {
```

```
private String jdbcURL =
```

```
"jdbc:mysql://localhost:3306/java";
```

```
private String jdbcUsername = "root";
```

```
private String jdbcPassword = "cdac";
```

```
private Connection getConnection()throws
```

```
Exception{
```

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

```
return
```

```
DriverManager.getConnection(jdbcURL,jdbcUser  
name,jdbcPassword);
```

```
}
```

```

public List<Faculty> getAllFaculty(){
    List<Faculty> list =new ArrayList<>();
    String sql="Select * from faculty";
    try( Connection conn=getConnection();
        PreparedStatement
ps=conn.prepareStatement(sql);
        ResultSet rs =ps.executeQuery()){
        while(rs.next()){
            Faculty f=new Faculty();
            f.setId(rs.getInt("id"));
            f.setName(rs.getString("name"));

            f.setDepartment(rs.getString("department"));
            f.setEmail(rs.getString("email"));

            f.setQualification(rs.getString("qualification"))
;
            list.add(f);

        }
    }
    catch(Exception e) {
        e.printStackTrace();

    }
    return list;
}

```

```
public boolean insertFaculty(Faculty f) {  
    String sql="insert into faculty  
values(?,?,?,?,?)";  
    try( Connection conn = getConnection();  
        PreparedStatement  
ps=conn.prepareStatement(sql)){  
        ps.setInt(1, f.getId());  
        ps.setString(2, f.getName());  
        ps.setString(3, f.getDepartment());  
        ps.setString(4, f.getEmail());  
        ps.setString(5, f.getQualification());  
  
        return ps.executeUpdate()>0;  
    }catch(Exception e) {  
        e.printStackTrace();  
        return false;  
    }  
}  
}
```

Com.faculty.model

```
package com.faculty.model;
```

```
public class Faculty {  
    private int id;  
    private String  
name,department,email,qualification;  
    public int getId() {  
        return id;  
    }  
    public void setId(int id) {  
        this.id = id;  
    }  
    public String getName() {  
        return name;  
    }  
    public void setName(String name) {  
        this.name = name;  
    }  
    public String getDepartment() {  
        return department;  
    }  
}
```

```

    public void setDepartment(String department)
    {
        this.department = department;
    }
    public String getEmail() {
        return email;
    }
    public void setEmail(String email) {
        this.email = email;
    }
    public String getQualification() {
        return qualification;
    }
    public void setQualification(String
qualification) {
        this.qualification = qualification;
    }
}

```

Web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app
xmlns:xsi="http://www.w3.org/2001/XMLSchema
-instance"
    xmlns="https://jakarta.ee/xml/ns/jakartaee"

```

```
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee https://jakarta.ee/xml/ns/jakartaee/web-app_6_0.xsd"
    id="WebApp_ID"
    version="6.0">
```

```
<display-name>faculty</display-name>
```

```
<!-- Welcome File -->
```

```
<welcome-file-list>
```

```
    <welcome-file>index.jsp</welcome-file>
```

```
</welcome-file-list>
```

```
<servlet>
```

```
    <servlet-name>AddFacultyServlet</servlet-name>
```

```
    <servlet-class>com.faculty.controller.AddFacultyServlet</servlet-class>
```

```
</servlet>
```

```
<servlet-mapping>
```

```
    <servlet-name>AddFacultyServlet</servlet-name>
```

```
    <url-pattern>/addFaculty</url-pattern>
</servlet-mapping>
```


</web-app>

AddFaculty

```
<% @ 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>
```

```
<form action="AddFaculty" method="post">
```

ID:<input

type="number"name="id"required>

Name:<input

type="text"name="name"required>

Department:<input

type="text"name="department" required>

Email:<input type="email"

name="email"required>

Qualification:<input

type="text"name="qualification" required>


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

index.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>
<jsp:forward page="listFaculty.jsp"/>
</body>
</html>
```

listFaculty

```
<% @ page language="java"
contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8" import="java.util.*,
com.faculty.dao.FacultyDao,
com.faculty.model.Faculty" %>
<!DOCTYPE html>
```

```

<html>
<head>
  <meta charset="UTF-8">
  <title>Faculty List</title>
</head>
<body>

  <a href="AddFaculty.jsp">Add Faculty</a>

  <table border="1">
    <tr>
      <th>ID</th>
      <th>Name</th>
      <th><u>Dept</u></th>
      <th>Email</th>
      <th><u>Qual</u></th>
      <th>Action</th>
    </tr>

    <%
      List<Faculty> list = new
FacultyDao().getAllFaculty();
      for(Faculty f : list){
    %>
      <tr>
        <td><%= f.getId() %></td>
        <td><%= f.getName() %></td>

```

```
<td><%= f.getDepartment() %></td>  
<td><%= f.getEmail() %></td>  
<td><%= f.getQualification() %></td>
```

```
</tr>  
<% } %>
```

```
</table>  
</body>  
</html>
```