**Employee.java**

**package** com.springcrud.beans;

**public** **class** Employee {

**private** **int** eid;

**private** String name,designation;

**private** **float** salary;

**public** **int** getEid() {

**return** eid;

}

**public** **void** setEid(**int** eid) {

**this**.eid = eid;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getDesignation() {

**return** designation;

}

**public** **void** setDesignation(String designation) {

**this**.designation = designation;

}

**public** **float** getSalary() {

**return** salary;

}

**public** **void** setSalary(**float** salary) {

**this**.salary = salary;

}

}

**Controller**

**EmployeeController.java**

package com.springcrud.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

import com.springcrud.beans.Employee;

import com.springcrud.dao.EmployeeDao;

@Controller

public class EmployeeController {

@Autowired

EmployeeDao dao;

@RequestMapping(value="/empform", method=RequestMethod.GET)

public String showForm(Model m){

m.addAttribute("emp", new Employee());

//System.out.println("show Form");

return "empform";

}

@RequestMapping(value="/save", method=RequestMethod.POST)

public String save(@ModelAttribute("emp")Employee emp){

//System.out.println(emp.getEid());

dao.insert(emp);

return "redirect:/viewemp";

}

@RequestMapping("/viewemp")

public String viewemp(Model m){

List<Employee> empList= dao.getEmployeesDetails();

/\*for(Employee e : empList){

System.out.println(e.getEid());

}\*/

m.addAttribute("empList",empList);

return "viewemp";

}

@RequestMapping(value="/editemp/{eid}")

public String edit(@PathVariable int eid, Model m){

Employee emp=dao.getEmpId(eid);

m.addAttribute("emp",emp);

return "empeditform";

}

@RequestMapping(value="/editsave",method=RequestMethod.POST)

public String editSave(@ModelAttribute("emp") Employee emp){

System.out.println(emp.getEid());

dao.update(emp);

return "redirect:/viewemp";

}

@RequestMapping(value="/deleteemp/{eid}")

public String delete(@PathVariable int eid){

dao.delete(eid);

return "redirect:/viewemp";

}

}

**DAO file**

**EmployeeDao.java**

package com.springcrud.dao;

import java.util.List;

import org.springframework.jdbc.core.JdbcTemplate;

import com.springcrud.beans.Employee;

public class EmployeeDao {

JdbcTemplate template;

public void setTemplate(JdbcTemplate template){

this.template=template;

}

public int insert(Employee emp){

String sql="insert into Employee(eid,name,designation,salary)values(?,?,?,?)";

int ans=template.update(sql,emp.getEid(),emp.getName(),emp.getDesignation(),emp.getSalary());

return ans;

}

public int update(Employee emp){

String sql="update Employee set name=?, designation=?, salary=? where eid=?";

int ans=template.update(sql,emp.getName(),emp.getDesignation(),emp.getSalary(),emp.getEid());

return ans;

}

public int delete(int id){

String sql="delete from employee where eid=?";

return template.update(sql,id);

}

public Employee getEmpId(int id){

String sql="select \* from Employee where eid=?";

@SuppressWarnings("deprecation")

Employee emp=template.queryForObject(sql,new Object[]{id},new EmployeeMapper());

return emp;

}

public List<Employee> getEmployeesDetails(){

String sql="select \* from Employee";

List<Employee>empList=template.query(sql,new EmployeeMapper());

return empList;

}

}

**EmployeeMapper.java**

package com.springcrud.dao;

import java.sql.ResultSet;

import java.sql.SQLException;

import org.springframework.jdbc.core.RowMapper;

import com.springcrud.beans.Employee;

//RowMapper converts Records from ResultSet to Objects

public class EmployeeMapper implements RowMapper<Employee>{

@Override

public Employee mapRow(ResultSet rs, int rowNum)throws SQLException{

Employee employee =new Employee();

employee.setEid(rs.getInt("eid"));

employee.setName(rs.getString("name"));

employee.setDesignation(rs.getString("designation"));

employee.setSalary(rs.getFloat("salary"));

return employee;

}

}

2 .JSP Files:-

**Empeditform.java**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://www.springframework.org/tags/form"* prefix=*"form"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1> Edit Employee Information </h1>

<form:form method=*"post"* action=*"../editsave"* modelAttribute=*"emp"*>

id: <form:hidden path=*"eid"*/> <br>

name: <form:input path=*"name"* /> <br>

designation: <form:input path=*"designation"*/> <br>

salary: <form:input path=*"salary"*/> <br>

<input type=*"submit"* value=*"Save changes"*>

</form:form>

</body>

</html>

**Empform.jsp**

<%@ taglib uri=*"http://www.springframework.org/tags/form"* prefix=*"fm"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<h1>Add New Employee</h1>

<fm:form method=*"post"* action=*"save"* modelAttribute=*"emp"*>

<table >

<tr>

<td>eid : </td>

<td><fm:input path=*"eid"* /></td>

</tr>

<tr>

<td>Name : </td>

<td><fm:input path=*"name"* /></td>

</tr>

<tr>

<td>Salary :</td>

<td><fm:input path=*"salary"* /></td>

</tr>

<tr>

<td>Designation :</td>

<td><fm:input path=*"designation"* /></td>

</tr>

<tr>

<td> </td>

<td><input type=*"submit"* value=*"Save"* /></td>

</tr>

</table>

</fm:form>

**Viewemp.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://www.springframework.org/tags/form"* prefix=*"form"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<table border=*"2"*>

<tr>

<th>Id</th>

<th>Name</th>

<th>Designation</th>

<th>Salary</th>

</tr>

<c:forEach var=*"emp"* items=*"*${empList}*"*>

<tr>

<td>${emp.eid}</td>

<td>${emp.name}</td>

<td>${emp.designation}</td>

<td>${emp.salary}</td>

<td><a href=*"editemp/*${emp.eid}*"*>Edit</a></td>

<td><a href=*"deleteemp/*${emp.eid}*"*>Delete</a></td>

</tr>

</c:forEach>

</table>

</body>

</html>

**3 .XML Files**

Spring-Servlet.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xmlns:p=*"http://www.springframework.org/schema/p"*

xmlns:context=*"http://www.springframework.org/schema/context"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans*

*http://www.springframework.org/schema/beans/spring-beans-3.0.xsd*

*http://www.springframework.org/schema/context*

*http://www.springframework.org/schema/context/spring-context-3.0.xsd"*>

<context:component-scan base-package=*"com.springcrud.controller"* />

<!-- Create Object of View Resolver -->

<bean id=*"viewresolver"* class=*"org.springframework.web.servlet.view.InternalResourceViewResolver"*>

<property name=*"prefix"* value=*"/WEB-INF/jsp/"* />

<property name=*"suffix"* value=*".jsp"* />

</bean>

<!-- Create Object of Database Connection -->

<bean id=*"ds"* class=*"org.springframework.jdbc.datasource.DriverManagerDataSource"*>

<property name=*"driverClassName"* value=*"com.mysql.cj.jdbc.Driver"*/>

<property name=*"url"* value=*"jdbc:mysql://localhost:3306/cred"*/>

<property name=*"username"* value=*"root"* />

<property name=*"password"* value=*"Ashish@7"* />

</bean>

<!-- Create Object of JDBCTemplate -->

<bean id=*"jt"* class=*"org.springframework.jdbc.core.JdbcTemplate"*>

<property name=*"dataSource"* ref=*"ds"* />

</bean>

<!-- Create Object of Repository/CRUD -->

<bean id=*"dao"* class=*"com.springcrud.dao.EmployeeDao"*>

<property name=*"template"* ref=*"jt"*/>

</bean>

</beans>

**Web.xml**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee; http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>Spring Crud Operations</display-name>

<welcome-file-list>

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

</welcome-file-list>

<servlet>

<servlet-name>spring</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

<load-on-startup>1</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>spring</servlet-name>

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

</servlet-mapping>

</web-app>

**Index.jsp**

<html>

<body>

<h2>Hello World!</h2>

<a href=*"empform"*>Add Employee</a>

<a href=*"viewemp"*> View Employee Details</a>

</body>

</html>