Source Code for Searching for a Specific User and Updating the User Information

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
cproject xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
  <groupId>Mphasis
  <artifactId>SpringMVCExample1</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>
  <name>SpringMVCExample1 Maven Webapp</name>
  <!-- FIXME change it to the project's website -->
  <url>http://www.example.com</url>
  cproperties>
   <maven.compiler.source>1.7</maven.compiler.source>
   <maven.compiler.target>1.7</maven.compiler.target>
   <spring.version>5.1.0.RELEASE</spring.version>
   <cglib.version>2.2.2</cglib.version>
  </properties>
  <dependencies>
   <dependency>
     <groupId>junit
     <artifactId>junit</artifactId>
     <version>4.11</version>
     <scope>test</scope>
   </dependency>
    <!-- https://mvnrepository.com/artifact/jstl/jstl -->
   <dependency>
   <groupId>jstl
   <artifactId>jstl</artifactId>
   <version>1.2</version>
</dependency>
 <!-- Spring core & mvc -->
            <dependency>
                  <groupId>org.springframework
                  <artifactId>spring-context</artifactId>
                  <version>${spring.version}</version>
            </dependency>
```

```
<dependency>
                  <groupId>org.springframework
                  <artifactId>spring-webmvc</artifactId>
                  <version>${spring.version}</version>
            </dependency>
<dependency>
                  <groupId>org.springframework
                  <artifactId>spring-orm</artifactId>
                  <version>${spring.version}</version>
                  <type>jar</type>
                  <scope>compile</scope>
            </dependency>
            <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -
->
   <dependency>
   <groupId>mysql
   <artifactId>mysql-connector-java</artifactId>
    <version>8.0.28
      </dependency>
      <dependency>
                  <groupId>cglib
                  <artifactId>cglib-nodep</artifactId>
                  <version>${cglib.version}</version>
                  <scope>runtime</scope>
            </dependency>
 </dependencies>
  <build>
   <finalName>SpringMVCExample1</finalName>
    <pluginManagement><!-- lock down plugins versions to avoid using Maven</pre>
defaults (may be moved to parent pom) -->
     <plugins>
       <plugin>
         <artifactId>maven-clean-plugin</artifactId>
         <version>3.1.0
       </plugin>
       <!-- see http://maven.apache.org/ref/current/maven-core/default-
bindings.html#Plugin_bindings_for_war_packaging -->
       <plugin>
         <artifactId>maven-resources-plugin</artifactId>
         <version>3.0.2
       </plugin>
       <plugin>
         <artifactId>maven-compiler-plugin</artifactId>
         <version>3.8.0
       </plugin>
       <plugin>
         <artifactId>maven-surefire-plugin</artifactId>
         <version>2.22.1
       </plugin>
       <plugin>
         <artifactId>maven-war-plugin</artifactId>
         <version>3.2.2
       </plugin>
       <plugin>
         <artifactId>maven-install-plugin</artifactId>
         <version>2.5.2
       </plugin>
```

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 degisnation) {
             this.designation = degisnation;
      }
      public float getSalary() {
             return salary;
      public void setSalary(float salary) {
             this.salary = salary;
      }
```

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.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
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.getEmployeeDetails();
             /*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";
      }
      @GetMapping("/searchEmployee")
      public String searchEmployee(@RequestParam("eid") int eid, Model model) {
          Employee employee = dao.getEmpId(eid);
          model.addAttribute("emp", employee);
          return "empeditform";
      @PostMapping("/editsave")
      public String editSave(@ModelAttribute("emp") Employee emp) {
          dao.update(emp);
          return "redirect:/viewemp";
      @GetMapping("/emp12")
    public String emp12() {
        // Code for handling the request for "/SpringMVCExample1/emp12"
        return "emp12"; // The name of the JSP file to be displayed
    }
}
```

EmployeeDao.java

```
package com.springcrud.dao;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.jdbc.core.JdbcTemplate;
import org.springframework.stereotype.Component;
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(?,?,?,?)";
ans=template.update(sq1,emp.getEid(),emp.getName(),emp.getDesignation(),emp.getSal
ary());
             return ans;
      }
      public int update(Employee emp) {
             String sql="update Employee set name=?, designation=?,salary=?
where eid=?";
ans=template.update(sq1,emp.getName(),emp.getDesignation(),emp.getSalary(),emp.get
Eid());
             return ans;
      public int delete(int id) {
             String sql="delete from Employee where eid=?";
             int ans=template.update(sql,id);
             return ans;
      }
      public Employee getEmpId(int id){
             String sql="select * from Employee where eid=?";
             Employee emp=template.queryForObject(sql, new Object[] {id},new
EmployeeMapper() );
             return emp;
      }
      public List<Employee> getEmployeeDetails(){
             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 is pre defined interface to convert resultset records to object
public class EmployeeMapper implements RowMapper<Employee> {
      @Override
      public Employee mapRow(ResultSet rs, int rowNum) throws SQLException {
             // TODO Auto-generated method stub
             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;
      }
}
```

<u>index.jsp</u>

empeditform.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
     <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1> Edit Employee Information </h1>
<form:form method="post" action="${pageContext.request.contextPath}/editsave"</pre>
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

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1"%>
  <%@ taglib uri="http://www.springframework.org/tags/form" prefix="fm"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Add New Employee</h1>
      <fm:form method="post" action="save" modelAttribute="emp">
     eid : 
        <fm:input path="eid" />
        Name : 
         <fm:input path="name" />
```

```
Salary :
      <fm:input path="salary" />
     Designation :
      <fm:input path="designation" />

      <input type="submit" value="Save" />
     </fm:form>
</body>
</html>
```

viewemp.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   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"</pre>
"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>
Id
Name
Designation
Salary
<c:forEach var="emp" items="${empList}" >
${emp.eid}
${emp.name}
${emp.designation}
${emp.salary}
</c:forEach>
```

```
</body>
```

spring-servlet.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
      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"</pre>
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
        cproperty name="prefix" value="/WEB-INF/jsp/" />
        cproperty name="suffix" value=".jsp" />
    </bean>
    <!-- Create Object of Database Connection -->
    <bean id="ds"</pre>
class="org.springframework.jdbc.datasource.DriverManagerDataSource">
    cproperty name="driverClassName" value="com.mysql.cj.jdbc.Driver"/>
    cproperty name="url" value="jdbc:mysql://localhost:3306/employee"/>
    cproperty name="username" value="root" />
    cproperty name="password" value="Satti@2001" />
    </bean>
    <!-- Create Object of JDBCTemplate -->
    <bean id="jt" class="org.springframework.jdbc.core.JdbcTemplate">
    cproperty name="dataSource" ref="ds" />
    </bean>
    <!-- Create Object of Repository/CRUD -->
    <bean id="dao" class="com.springcrud.dao.EmployeeDao">
    cproperty 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"</pre>
             xmlns="http://xmlns.jcp.org/xml/ns/javaee"
             xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
      http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
<display-name>Spring Crud Operation</display-name>
<welcome-file-list>
      <welcome-file>index.jsp</welcome-file>
</welcome-file-list>
<servlet>
      <!-- Provide a Servlet Name -->
      <servlet-name>spring</servlet-name>
      <!-- Provide a fully qualified path to the DispatcherServlet class -->
      <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-</pre>
class>
      <load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
      <!-- Provide a <a href="Servlet">Servlet</a> Name that you want to map -->
      <servlet-name>spring</servlet-name>
      <!-- Provide a <u>url</u> pattern -->
      <url-pattern>/</url-pattern>
</servlet-mapping>
</web-app>
```