

KIRAN KUMAR D NATIKAR

EMP ID NO:2576955

SOURCE CODE

## Source Code:

### Pom.xml:

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

<project 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>com</groupId>
  <artifactId>SearchingandUpdating</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>

  <name>SearchingandUpdating Maven Webapp</name>
  <!-- FIXME change it to the project's website -->
  <url>http://www.example.com</url>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.compiler.source>1.7</maven.compiler.source>
    <maven.compiler.target>1.7</maven.compiler.target>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.11</version>
      <scope>test</scope>
    </dependency>
    <!--spring context -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-context</artifactId>
      <version>5.3.22</version>
    </dependency>

    <!--spring core -->
    <dependency>
      <groupId>org.springframework</groupId>
      <artifactId>spring-core</artifactId>
```

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```
<version>5.3.22</version>
</dependency>

<!--Spring beans -->

<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-beans</artifactId>
    <version>5.3.22</version>
</dependency>

<!--spring web -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-web</artifactId>
    <version>5.3.22</version>
</dependency>

<!--spring webmvc -->
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>5.3.22</version>
</dependency>

<!--spring jdbc -->

<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-jdbc</artifactId>
    <version>5.3.22</version>
</dependency>

<!--mysql connector -->
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <version>8.0.30</version>
</dependency>
```

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```
<!--java servlet jstl -->

<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
</dependency>

<!--java servlet API -->
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>javax.servlet-api</artifactId>
    <version>4.0.1</version>
    <scope>provided</scope>
</dependency>
</dependencies>

<build>
    <finalName>SearchingandUpdating</finalName>
    <pluginManagement><!-- lock down plugins versions to avoid using Maven
        defaults (may be moved to parent pom) -->
        <plugins>
            <plugin>
                <artifactId>maven-clean-plugin</artifactId>
                <version>3.1.0</version>
            </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</version>
            </plugin>
            <plugin>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.8.0</version>
            </plugin>
            <plugin>
                <artifactId>maven-surefire-plugin</artifactId>
                <version>2.22.1</version>
            </plugin>
            <plugin>
                <artifactId>maven-war-plugin</artifactId>
                <version>3.2.2</version>
            </plugin>
            <plugin>
```

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```
        <artifactId>maven-install-plugin</artifactId>
        <version>2.5.2</version>
    </plugin>
    <plugin>
        <artifactId>maven-deploy-plugin</artifactId>
        <version>2.8.2</version>
    </plugin>
</plugins>
</pluginManagement>
</build>
</project>
```

### MainController.java:

```
package com.SearchingandUpdating.controller;
import java.util.List;
import javax.servlet.http.HttpServletRequest;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.GetMapping;

import com.SearchingandUpdating.dao.UserDao;
import com.SearchingandUpdating.entity.UserEntity;
```

@Controller

```
public class MainController {
    @Autowired
    UserDao dao;

    @GetMapping("/listuser")
    public String getAllUsers(ModelMap map) {
        List<UserEntity> list= dao.getAllUsers();
        map.addAttribute("list", list);
        return "users";
    }

    @GetMapping("/details")
    public String getUser(HttpServletRequest request,ModelMap map) {
        long id=Long.parseLong(request.getParameter("id"));
        UserEntity entity=dao.getUserById(id);
        map.addAttribute("obj",entity);
        return "details";
    }
}
```

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```
        @GetMapping("/success")
        public void updateUser(HttpServletRequest request,ModelMap map) {
            long id=Long.parseLong(request.getParameter("id"));
            String name=request.getParameter("name");
            String salary=request.getParameter("salary");
            dao.updateUser(id,name,salary);
        }
    }
```

### UserDao.java

```
package com.SearchingandUpdating.dao;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.List;

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

import org.springframework.dao.DataAccessException;

import org.springframework.jdbc.core.JdbcTemplate;

import org.springframework.jdbc.core.ResultSetExtractor;

import org.springframework.jdbc.core.RowMapper;

import org.springframework.stereotype.Repository;

import com.SearchingandUpdating.entity.UserEntity;
```

@Repository

```
public class UserDao {

    @Autowired

    JdbcTemplate jdbcTemplate;
```

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```
public List<UserEntity> getAllUsers() {

    return jdbcTemplate.query("select * from user", new RowMapper<UserEntity>()

{

    public UserEntity mapRow(ResultSet rs, int rowNum) throws

SQLException {

        UserEntity obj = new UserEntity();

        obj.setId(rs.getLong(1));

        obj.setName(rs.getString(2));

        obj.setSalary(rs.getBigDecimal(3));

        return obj;

    }

});

}

public UserEntity getUserById(long id) {

    return jdbcTemplate.query("select * from user where id=" + id,

        new ResultSetExtractor<UserEntity>() {

            public UserEntity extractData(ResultSet rs) throws

SQLException, DataAccessException {

                // TODO Auto-generated method stub

                if (rs.next()) {

                    UserEntity obj = new UserEntity();
```

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```
        obj.setId(rs.getLong(1));

        obj.setName(rs.getString(2));

        obj.setSalary(rs.getBigDecimal(3));

        return obj;
    }

    return null;
}

});

}

public void updateUser(long id,String name,String salary) {

    String sql = "update user set name='"+name+"',"+"salary="+salary+" where
id="+id;

    jdbcTemplate.update(sql);

}

}
```

### UserEntity.java

**package** com.SearchingandUpdating.entity;

**import** java.math.BigDecimal;

**public class** UserEntity {

**private long** id;

**private** String name;

**private** BigDecimal salary;

**public** UserEntity() {

}

**public** UserEntity(**long** id, String name, BigDecimal salary) {

**super**();

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```
        this.id = id;
        this.name = name;
        this.salary = salary;
    }

    public long getId() {
        return id;
    }
    public void setId(long id) {
        this.id = id;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public BigDecimal getSalary() {
        return salary;
    }
    public void setSalary(BigDecimal salary) {
        this.salary = salary;
    }
    @Override
    public String toString() {
        return "UserEntity [id=" + id + ", name=" + name + "]";
    }
}
```

index.jsp

```
<html>
<body>
<h2>Spring Application</h2>

<a href="listuser">List All Users</a>
<br><br>

<form action="details">
<h3>Search for User</h3>
Enter Id : <input type="text" name="id" >

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



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</html>

### details.jsp

```
<% @ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8" isELIgnored="false"%>
<% @taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Update of Details</title>
</head>
<body>
    <h3>Details of the User</h3>
    <c:set var="user" value="${obj }"></c:set>
    UserID: ${user.id}
    <br> Name: ${user.name }
    <br> Salary: ${user.salary }
    <br>
    <br>
    <h3>You can update any UserDetails here</h3>
    <form action="success">
        user id : <input type="text" name="id"><br> <br>
        Name: <input type="text" name="name"><br> <br>
        Salary : <input type="text" name="salary"><br> <br>
        <input type="submit" value="submit">
    </form>
</body>
</html>
```

### success.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>
<h1>successfully updated</h1>
```

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<br><br>

<a href="listuser">To see all updated users, click here</a>

</body>

</html>

users.jsp

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

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

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="ISO-8859-1">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<h1>Available Users </h1>
```

```
<table border=1 cellspacing=0 cellpadding=10>
```

```
<tr><th>ID</th><th>NAME</th><th>SALARY</th></tr>
```

```
<c:forEach var="p" items="${list }">
```

```
<tr>
```

```
<td>${p.id }</td>
```

```
<td>${p.name }</td>
```

```
<td>${p.salary }</td>
```

```
</tr>
```

```
</c:forEach>
```

```
</table>
```

```
</body>
```

```
</html>
```

test-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:context="http://www.springframework.org/schema/context"
```

```
xsi:schemaLocation="
```

```
http://www.springframework.org/schema/beans
```

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

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

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

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```
<context:annotation-config></context:annotation-config>

<!-- jsp output -->
<context:component-scan base-
package="com.SearchingandUpdating.controller"></context:component-scan>
<bean id="jspViewResolver"
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
<property name="suffix" value=".jsp"></property>
<property name="prefix" value="/WEB-INF/view/"></property>
</bean>

<!-- database -->

<bean id="dataSource"
class="org.springframework.jdbc.datasource.DriverManagerDataSource">
<property name="driverClassName" value="com.mysql.cj.jdbc.Driver"></property>
<property name="url" value="jdbc:mysql://localhost:3306/pp1"></property>
<property name="username" value="root"></property>
<property name="password" value="Kiran@1312"></property>
</bean>
<bean id="jdbcTemplate" class="org.springframework.jdbc.core.JdbcTemplate">
<property name="dataSource" ref="dataSource"></property>
</bean>

<bean id="dao" class="com.SearchingandUpdating.dao.UserDao"></bean>
</beans>
```

## web.xml

```
<web-app>
<display-name>Archetype Created Web Application</display-name>

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

<servlet-mapping>
<servlet-name>test</servlet-name>
<url-pattern></url-pattern>
</servlet-mapping>

<context-param>
```

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```
        <param-name>contextConfigLocation</param-name>
        <param-value>/WEB-INF/test-servlet.xml</param-value>
    </context-param>

    <listener>
        <listener-class>org.springframework.web.context.ContextLoaderListener</listener-
class>
    </listener>
</web-app>
```