

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

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>
    <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>

<!--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>
        <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";
    }

    @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;

    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();
                    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();
        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>
</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>
<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 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">

  <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/ecommerce_db"></property>
    <property name="username" value="root"></property>
    <property name="password" value="Pramod@621"></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>
    <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>
```