Code for Searching and Updating 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
     <packaging>war</packaging>
     <name>SearchingandUpdating Maven Webapp
     <!-- FIXME change it to the project's website -->
     <url>http://www.example.com</url>
     cproperties>
           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
                 <artifactId>junit</artifactId>
                 <version>4.11
                 <scope>test</scope>
           </dependency>
           <!--spring context -->
           <dependency>
                 <groupId>org.springframework
                 <artifactId>spring-context</artifactId>
                 <version>5.3.22
           </dependency>
           <!--spring core -->
           <dependency>
                 <groupId>org.springframework</groupId>
                 <artifactId>spring-core</artifactId>
                 <version>5.3.22
           </dependency>
           <!--Spring beans -->
           <dependency>
                 <groupId>org.springframework
                 <artifactId>spring-beans</artifactId>
                 <version>5.3.22
           </dependency>
           <!--spring web -->
           <dependency>
                 <groupId>org.springframework
                 <artifactId>spring-web</artifactId>
                 <version>5.3.22
           </dependency>
           <!--spring webmvc -->
           <dependency>
```

```
<artifactId>spring-webmvc</artifactId>
                 <version>5.3.22
           </dependency>
           <!--spring jdbc -->
           <dependency>
                <groupId>org.springframework
                <artifactId>spring-jdbc</artifactId>
                <version>5.3.22
           </dependency>
           <!--mysql connector -->
           <dependency>
                <groupId>mysql</groupId>
                <artifactId>mysql-connector-java</artifactId>
                <version>8.0.30
           </dependency>
           <!--java servlet jstl -->
           <dependency>
                <groupId>javax.servlet
                <artifactId>jstl</artifactId>
                <version>1.2
           </dependency>
           <!--java servlet API -->
           <dependency>
                <groupId>javax.servlet
                <artifactId>javax.servlet-api</artifactId>
                <version>4.0.1
                <scope>provided</scope>
           </dependency>
     </dependencies>
     <build>
           <finalName>SearchingandUpdating</finalName>
           <pluginManagement><!-- lock down plugins versions to avoid using</pre>
Maven
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>
```

<groupId>org.springframework

```
<version>3.2.2
                          </plugin>
                          <plugin>
                                 <artifactId>maven-install-plugin</artifactId>
                                 <version>2.5.2
                          </plugin>
                          <plugin>
                                 <artifactId>maven-deploy-plugin</artifactId>
                                 <version>2.8.2
                          </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/>
<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"</pre>
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 }
\langle br \rangle
<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><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"</pre>
   pageEncoding="ISO-8859-1"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
< ht.ml>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h1>Available Users </h1>
IDNAMESALARY
<c:forEach var="p" items="${list }">
\langle t.r \rangle
${p.id}
${p.name}
${p.salary}
</c:forEach>
</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">

cproperty name="suffix" value=".jsp">
/property>
```

web.xml

```
<display-name>Archetype Created Web Application/display-name>
<servlet>
<servlet-name>test</servlet-name>
<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-</pre>
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>
stener-
class>org.springframework.web.context.ContextLoaderListener/listener-class>
</listener>
</web-app>
```