## SpringBoot 第四章

(SpringBoot 整合 SpringMVC+MyBatis)

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# 需求分析: 通过使用 SpringBoot+SpringMVC+MyBatis 整合实现一个对数据库中的 users 表的 CRUD 的操作

### 一、 创建项目

### 1 修改 pom 文件

```
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>
       <parent>
          <groupId>org.springframework.boot</groupId>
          <artifactId>spring-boot-starter-parent</artifactId>
          <version>1.5.10.RELEASE
       </parent>
       <groupId>com.bjsxt
       <artifactId>12-spring-boot-springmvc-mybatis</artifactId>
       <version>0.0.1-SNAPSHOT</version>
       cproperties>
          <java.version>1.7</java.version>
          <thymeleaf.version>3.0.2.RELEASE</thymeleaf.version>
   <thymeleaf-layout-dialect.version>2.0.4</thymeleaf-layout-dialect.ve
rsion>
      </properties>
       <dependencies>
          <!-- springBoot 的启动器 -->
          <dependency>
            <groupId>org.springframework.boot</groupId>
             <artifactId>spring-boot-starter-web</artifactId>
          </dependency>
          <!-- web 启动器 -->
          <dependency>
             <groupId>org.springframework.boot
             <artifactId>spring-boot-starter-thymeleaf</artifactId>
          </dependency>
          <!-- <u>Mybatis</u>启动器 -->
```

```
<dependency>
                          <groupId>org.mybatis.spring.boot</groupId>
                          <artifactId>mybatis-spring-boot-starter</artifactId>
                          <version>1.1.1
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                       </dependency>
                       <!-- mysql 数据库驱动 -->
                       <dependency>
                          <groupId>mysql</groupId>
                          <artifactId>mysql-connector-java</artifactId>
                       </dependency>
                       <!-- druid 数据库连接池 -->
                       <dependency>
                          <groupId>com.alibaba/groupId>
                          <artifactId>druid</artifactId>
                          <version>1.0.9
                       </dependency>
                   </dependencies>
                </project>
```

### 2 添加 application.properties 全局配置文件

```
spring.datasource.driverClassName=com.mysql.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/ssm
spring.datasource.username=root
spring.datasource.password=root
spring.datasource.type=com.alibaba.druid.pool.DruidDataSource
mybatis.type-aliases-package=com.bjsxt.pojo
```

### 3 数据库表设计

```
CREATE TABLE `users` (
   `id` int(11) NOT NULL AUTO_INCREMENT,
   `name` varchar(255) DEFAULT NULL,
   `age` int(11) DEFAULT NULL,
   PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

### 二、添加用户

### 1 创建实体类

```
public class Users {
   private Integer id;
   private String name;
   private Integer age;
   public Integer getId() {
       return id;
   public void setId(Integer id) {
     this.id = id;
   }
   public String getName() {
       return name;
   }
   public void setName(String name) {
       this.name = name;
   public Integer getAge() {
       return age;
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   public void setAge(Integer age) {
       this.age = age;
```

### 2 创建 mapper 接口以及映射配置文件

```
import com.bjsxt.pojo.Users;

public interface UsersMapper {

    void insertUser(Users users);
}

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

### 3 创建业务层

```
@Service
@Transactional
public class UsersServiceImpl implements UsersService {

    @Autowired
    private UsersMapper usersMapper;

    @Override
    public void addUser(Users users) {
        this.usersMapper.insertUser(users);
    }
}
```

### 4 创建 Controller

```
@Controller
@RequestMapping("/users")
public class UsersController {

    @Autowired
    private UsersService usersService;

    /**

    * 页面跳转
    */
    @RequestMapping("/{page}")
    public String showPage(@PathVariable String page){
        return page;
    }

    /**
```

```
* 添加用户
                    */
                                                                   尚学堂·舊桥框序是
                   @RequestMapping("/addUser")
                   public String addUser(Users users){
                      this.usersService.addUser(users);
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                      return "ok";
                   }
                }
```

### 编写页面

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>添加用户</title>
</head>
<body>
    <form th:action="@{/users/addUser}" method="post">
       用户姓名: <input type="text" name="name"/><br/>
       用户年龄: <input type="text" name="age"/><br/>
                                                                 ENTER
       <input type="submit" value="确定"/><br/>
    </form>
</body>
</html>
<!DOCTYPE html>
<html>
<head>
                                                   尚学堂。唐林德
<meta charset="UTF-8">
<title>操作提示页面</title>
</head>
<body>
   操作成功!!!
</body>
</html>
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```

### 启动类

```
@SpringBootApplication
```

```
public class App {

public static void main(String[] args) {

SpringApplication.run(App.class, args);

}

}
```

### 三、 查询用户

1 在 mapper 接口中以及映射配置文件中添加相关代码

2 在业务层中添加查询方法

```
@Override
    public List<Users> findUserAll() {
        return this.usersMapper.selectUsersAll();
}
```

3 在 Controller 中添加方法

```
/**
  * 查询全部用户
  */
@RequestMapping("/findUserAll")
public String findUserAll(Model model){
    List<Users> list = this.usersService.findUserAll();
    model.addAttribute("list", list);
    return "showUsers";
}
```

### 添加页面

```
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      <!DOCTYPE html>
      <html>
      <head>
      <meta charset="UTF-8">
      <title>展示用户数据</title>
      </head>
      <body>
       用户 ID
           用户姓名
          用户年龄
         学堂. 医树<sup>红原</sup>
          </body>
      </html>
```

#### 四、 用户更新

- 更新用户之前的查询,并将数据在页面中回显
  - 1.1修改 mapper 接口以及映射配置文件

```
Users selectUsersById(Integer id);
<select id="selectUsersById" resultType="users">
       select id,name,age from users where id = #{value}
   </select>
```

### 1.2修改业务层代码

```
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@Override
   public Users findUserById(Integer id) {
      return this.usersMapper.selectUsersById(id);
```

### 1.3修改 Controller

```
/**
 * 根据用户 id 查询用户
 */
@RequestMapping("/findUserById")
public String findUserById(Integer id,Model model){
    Users user = this.usersService.findUserById(id);
    model.addAttribute("user", user);
    return "updateUser";
}
```

### 1.4添加页面 updateUsers.html

```
<!DOCTYPE html>
   <html>
   <head>
    <meta charset="UTF-8">
   <title>Insert title here</title>
   </head>
   <body>
       <form th:action="@{/users/editUser}" method="post">
              <input type="hidden" name="id" th:field="${user.id}"/>
              用户姓名: <input type="text" name="name"
th:field="${user.name}"/><br/>
              用户年龄: <input type="text" name="age"
th:field="${user.age}"/><br/>
              <input type="submit" value="确定"/><br/>
       </form>
   </body>
   </html>
```

### 1.5修改 showUsers.html 页面添加操作功能

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>展示用户数据</title>
</head>
<body>
```

```
用户 ID
                          学堂·舊树
         用户姓名
         用户年龄
尚学堂·唐彬
          操作
        <a <u>th:href</u>="@{/users/findUserById(id=${user.id})}">更
         </body>
      </html>
```

### 2 用户更新

### 2.1修改 mapper 接口以及映射配置文件

```
void updateUser(Users users);

<update id="updateUser" parameterType="users">
          update users set name=#{name} ,age=#{age} where id=#{id}
          </update>
```

### 2.2修改业务层代码

```
@Override
    public void updateUser(Users users) {
        this.usersMapper.updateUser(users);
}
```

### 2.3修改 Controller

```
/**
* 更新用户
*/
```

```
@RequestMapping("/editUser")
public String editUser(Users users){
                                                        · 道· 括於種原於
   this.usersService.updateUser(users);
   return "ok";
```

#### 五、 删除用户

修改 mapper 接口以及映射配置文件

```
void deleteUserById(Integer id);
<delete id="deleteUserById">
       delete from users where id = #{value}
   </delete>
```

### 修改业务层代码

```
@Override
   public void deleteUserById(Integer id) {
       this.usersMapper.deleteUserById(id);
```

### 修改 Controller

```
* 删除用户
@RequestMapping("/delUser")
public String delUser(Integer id){
   this.usersService.deleteUserById(id);
   return "redirect:/users/findUserAll";
```

### 修改 showUsers.html

```
尚学
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>展示用户数据</title>
```

```
</head>
       <body>
                               尚学堂·舊於
         尚学堂。唐林
            用户 ID
            用户姓名
           用户年龄
            操作
          <a <u>th:href</u>="@{/users/findUserById(id=${user.id})}">更
      新用户</a>
             <a th:href="@{/users/delUser(id=${user.id})}">删除用户
      </a>
            </body>
       </html>
```