

# 学生系统管理平台

## 一,项目概述

一个基于SSM的学生管理系统

数据库中默认的管理员身份信息：账户名：多瑞c, 密码 1234

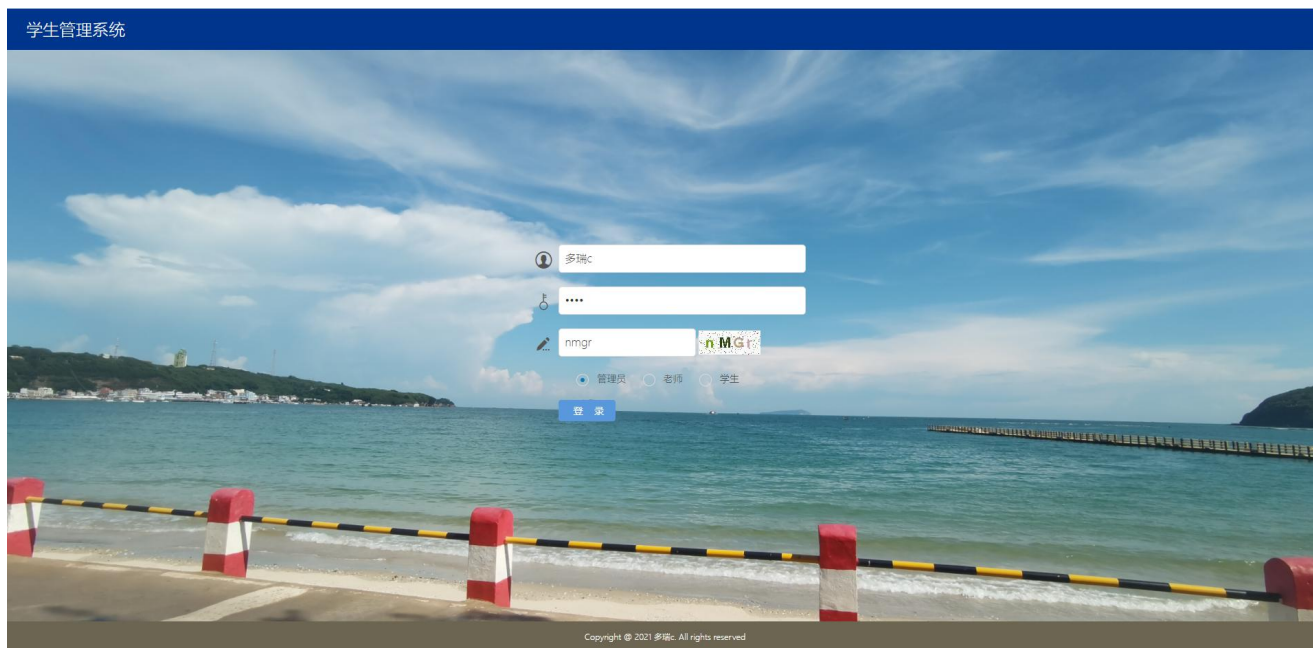
### 1.1 开发环境

工具	版本或描述
OS	Windows 10
JDK	1.8
IDE	IntelliJ IDEA 2019.3.2
Maven	3.5.2
MySQL	5.7.19

### 1.2 用户权限介绍

- 管理员：具有所有管理模块的操控权限
- 教师：仅具有学生信息管理模块的所有权限,且在教师信息管理模块中只具有查询及添加信息的权限
- 学生：仅具有学生信息管理模块的查询及添加信息的权限

### 1.3 项目截图 (管理员身份登录)



## \*系统主页面\*

学生管理系统 — SSM

管理员: 多瑞c [安全退出]

【导航菜单】

- 学生信息管理
- 教师信息管理
- 班级管理
- 年级信息管理
- 系统用户管理
- 个人信息管理

欢迎使用学生管理系统

开发人员: 多瑞c  
联系方式-Email: 1468241627@qq.com  
联系方式-QQ: 1468241627

项目开发环境介绍

操作系统: Windows 10  
开发工具: IntelliJ IDEA 2019.3.2(Ultimate Edition)  
Java版本: 1.8  
服务器: Tomcat 8.0.5  
数据库: Server version: 5.7.19 MySQL Community Server - GPL  
采用技术: JSP+jQuery+Ajax+EasyUI+Spring+Spring MVC+MyBatis+MySQL+Maven

推送  
只要毒不死，就往死里毒

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## \*管理员信息管理页面\*

学生管理系统 — SSM

管理员: 多瑞c [安全退出]

【导航菜单】

- 学生信息管理
- 教师信息管理
- 班级管理
- 年级信息管理
- 系统用户管理
- 个人信息管理

管理员列表

ID	姓名	性别	邮箱	电话	地址
1	多多u	女	xduoduo@dog.com	17674316651	光明曹
2	厂长	男	changzhang@lol.com	17577895555	湖北
3	uzi	男	uzi@lol.com	18745612359	湖北
4	多瑞c	男	1468241627@qq.com	17674314297	海南

## \*学生信息管理页面\*

学生管理系统 — SSM

管理员: 多瑞c [安全退出]

【导航菜单】

- 学生信息管理
- 教师信息管理
- 班级管理
- 年级信息管理
- 系统用户管理
- 个人信息管理

学生列表

ID	所属班级	姓名	学号	性别	邮箱	电话	住址	简介
1	软件一班	李胜利	201809123	男	328478@qq.com	18037151251	北京	优秀
2	软件一班	朱大强	202109111	女	zhudaqiang@qq.com	15656895655	江苏	very good

\*教师信息管理页面\*

学生管理系统 — SSM

管理员: 多琳C

安全退出

教师列表

添加

修改

删除

班级名称

未选择班级

教师名称

搜索

<input type="checkbox"/>	ID	任课程	姓名	工号	性别	邮箱	电话	住址
1	13	软件二班	赵安宇	201809111	女	328472116@qq.com	13725031269	北京
2	12	软件一班	王雅盛	201809208	男	328472116@qq.com	13037151511	河南

\*年级信息管理页面\*

学生管理系统 — SSM

管理员: 多琳C

安全退出

年级列表

添加

修改

删除

年级名称

搜索

<input type="checkbox"/>	ID	年级名称	年级主任	主任邮箱	主任电话	年级介绍
1	93	信管工程大四	陈主任	328472116@qq.com	18037151521	主管信管工程大四学生事务

\*班级管理信息页面\*

学生管理系统 — SSM

管理员: 多琳C

安全退出

班级列表

添加

修改

删除

班级名称

搜索

<input type="checkbox"/>	ID	班级名称	班级人数	班主任姓名	班主任邮箱	班主任电话	所属年级	班级介绍
1	1	软件一班	40	柯哥	328472116@qq.com	15939407503	信管工程大四	主要是发展就业

\*个人信息管理页面\*

学生管理系统 — SSM

管理员: 多琳C

安全退出

修改密码

修改密码窗口

原密码

新密码

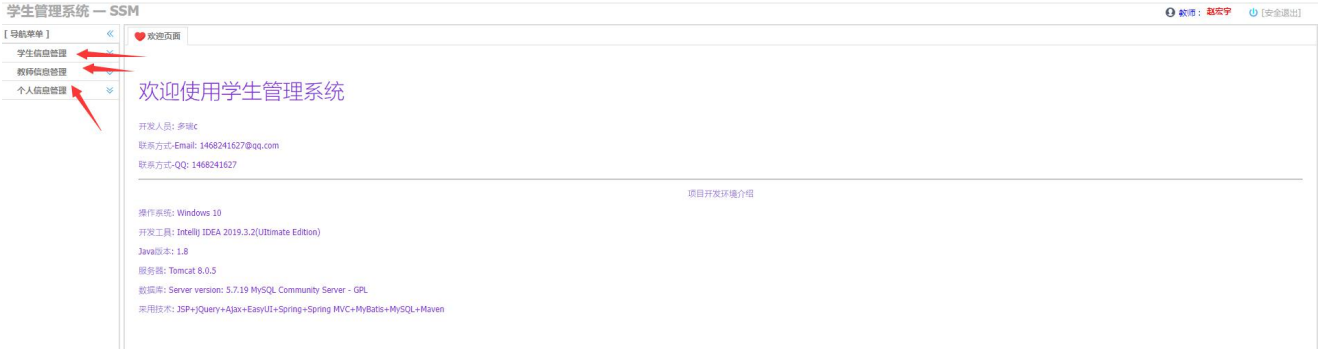
新密码

提交

重置

## 二,项目截图 (教师身份登录)

\*教师仅具有学生信息管理模块的所有权限,且在教师信息管理模块中只具有查询及添加信息的权限\*



## 三,项目截图 (学生身份登录)

\*学生仅具有学生信息管理模块的查询及添加信息的权限\*



## 四,项目结构

```
1 | .gitattributes
2 | LICENSE
3 | README.md
4 |
5 | └database file
6 |   ssm_sms.sql
7 |
8 | └demonstration_picture
9 |   SMS-ClassInfo-view.PNG
10 |   SMS-GradeInfo-view.PNG
11 |   SMS-Login-view.PNG
12 |   SMS-ModifyPwd-view.PNG
13 |   SMS-Student-permission.PNG
14 |   SMS-StudentInfo-view.PNG
15 |   SMS-Teacher-permission.PNG
16 |   SMS-TeacherInfo-view.PNG
17 |   SSM-AdminInfo-view.PNG
18 |   SSM-Main-view.PNG
19 |
20 | └sms
```

```
21 | pom.xml
22 |
23 |
24 | └src
25 |   └main
26 |     └java
27 |       └com
28 |         └cc
29 |           └sms
30 |             └bean
31 |               Admin.java
32 |              Clazz.java
33 |               Grade.java
34 |               LoginForm.java
35 |               Student.java
36 |               Teacher.java
37 |
38 |       └controller
39 |         AdminController.java
40 |         ClazzController.java
41 |         CommonController.java
42 |         GradeController.java
43 |         StudentController.java
44 |         SystemController.java
45 |         TeacherController.java
46 |
47 |       └dao
48 |         AdminMapper.java
49 |         ClazzMapper.java
50 |         GradeMapper.java
51 |         StudentMapper.java
52 |         TeacherMapper.java
53 |
54 |       └interceptor
55 |         LoginInterceptor.java
56 |
57 |       └service
58 |         AdminService.java
59 |         ClazzService.java
60 |         GradeService.java
```

```
61 | | | StudentService.java
62 | | | TeacherService.java
63 | | |
64 | | └impl
65 | | AdminServiceImpl.java
66 | | ClazzServiceImpl.java
67 | | GradeServiceImpl.java
68 | | StudentServiceImpl.java
69 | | TeacherServiceImpl.java
70 | |
71 | └util
72 | CreateVerifiCodeImage.java
73 | UploadFile.java
74 |
75 └resource
76 | └database-conf
77 | | c3p0.properties
78 | |
79 | └mapper
80 | | AdminMapper.xml
81 | | ClazzMapper.xml
82 | | GradeMapper.xml
83 | | StudentMapper.xml
84 | | TeacherMapper.xml
85 | |
86 | └mybatis-conf
87 | | mybatis-config.xml
88 | |
89 | └spring-conf
90 | applicationContext.xml
91 | springmvc-config.xml
92 |
93 └webapp
94 | index.jsp
95 |
96 └image
97 | └portrait
98 | default_admin_portrait.png
99 | default_student_portrait.png
100 | default_teacher_portrait.png
```

```
101 |
102 |─static
103 | |─easyui
104 | | |
105 | | |─css
106 | | |
107 | | |─js
108 | | |
109 | | |─themes
110 | |
111 | |
112 | |─h-ui
113 | | (略..)
114 |
115 |
116 |
117 |─WEB-INF
118 | | web.xml
119 | |
120 | |─view
121 | |─admin
122 | | | adminList.jsp
123 | | |
124 | | |─clazz
125 | | | | clazzList.jsp
126 | | | |
127 | | | |─common
128 | | | | | settings.jsp
129 | | | | |
130 | | | |─error
131 | | | | | 404.jsp
132 | | | | | 500.jsp
133 | | | | |
134 | | | |─grade
135 | | | | | gradeList.jsp
136 | | | | |
137 | | | |─student
138 | | | | | studentList.jsp
139 | | | | |
140 | | | |─system
```



```
141 | intro.jsp
142 | login.jsp
143 | main.jsp
144 |
145 |─teacher
146 teacherList.jsp
```

## 五,项目文件说明-

### 数据库文件

```
1 ssm_sms.sql
```

### 项目文件说明-数据库配置信息

```
1 c3p0.properties
```

### 项目文件说明-H-ui 前端框架

```
1 h-ui/
```

### 项目文件说明-EasyUI 前端框架

```
1 easyui/
```

### 项目文件说明-Spring 核心配置文件

```
1 applicationContext.xml
```

### 项目文件说明-Spring MVC 核心配置文件

```
1 springmvc-config.xml
```

### 项目文件说明-MyBatis 核心配置文件

```
1 mybatis-config.xml
```

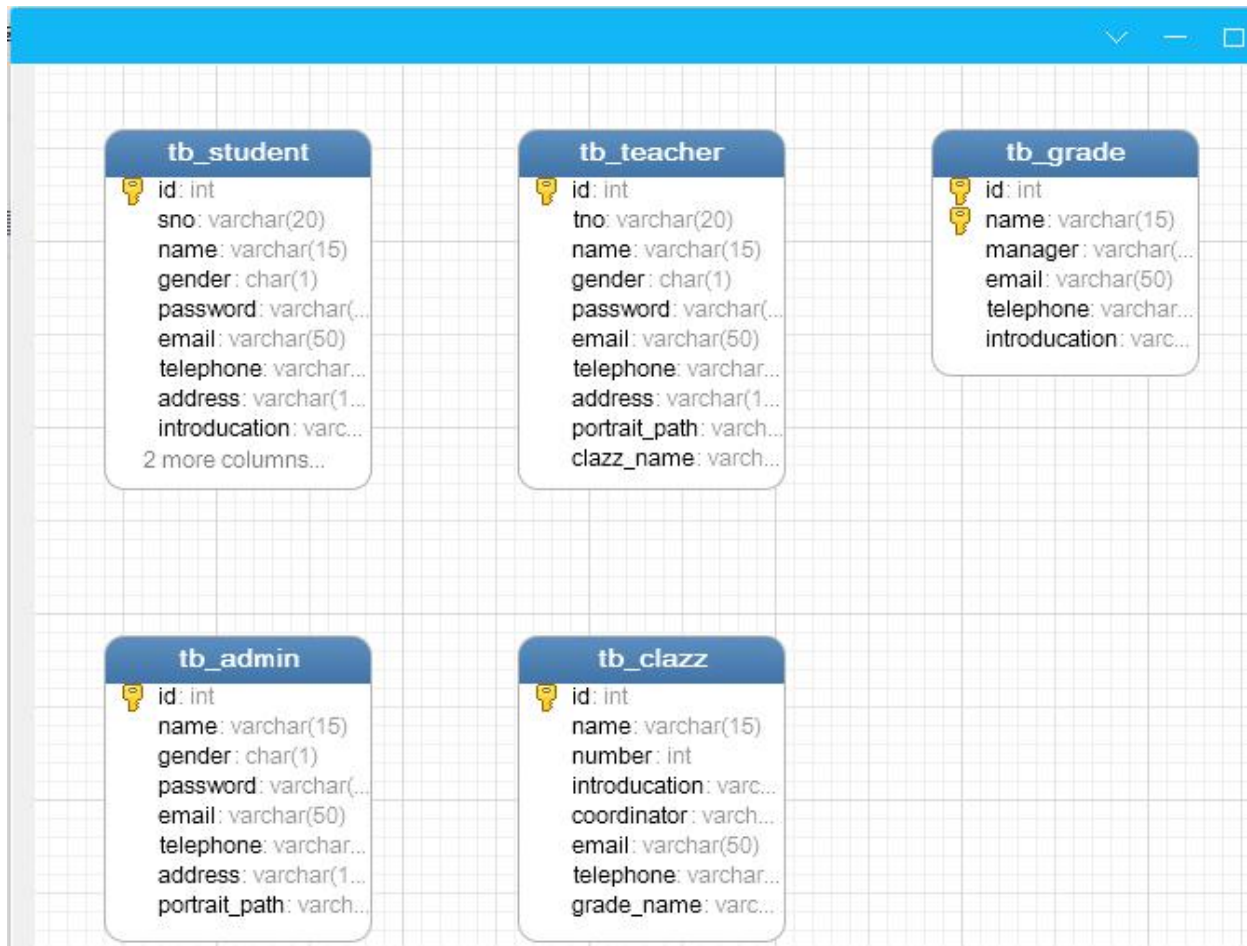
### 项目文件说明-Mapper 接口映射文件

```
1 mapper/
```

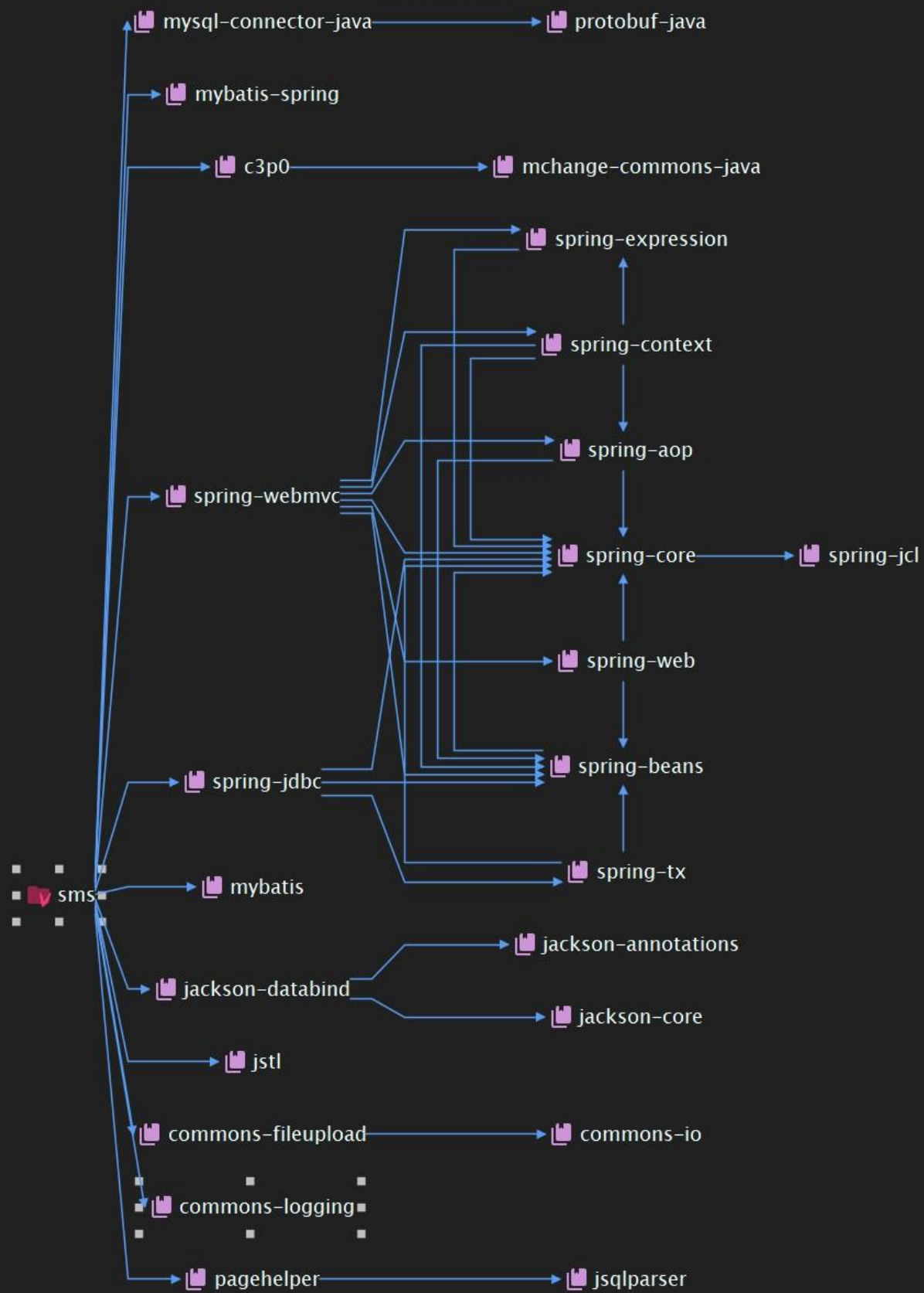
### 项目文件说明-用户默认头像

```
1 portrait/
```

### 数据库ER图

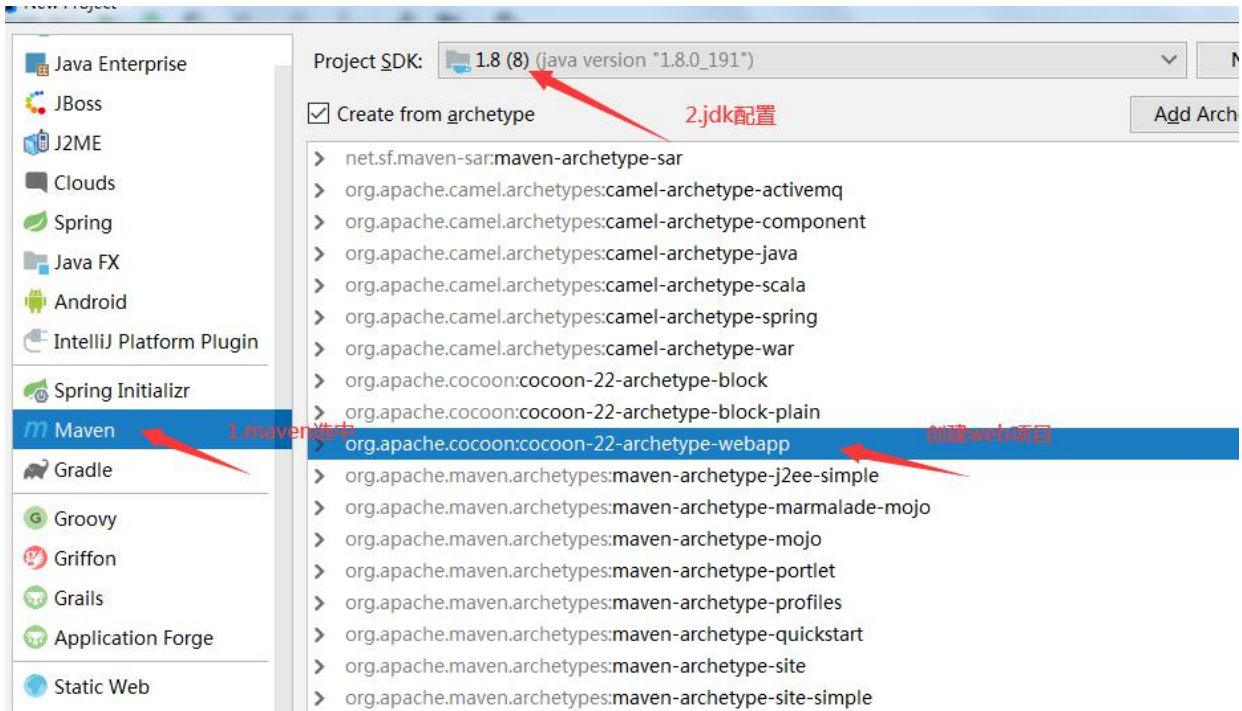


Jar包依赖关系图



## 七,创建maven项目

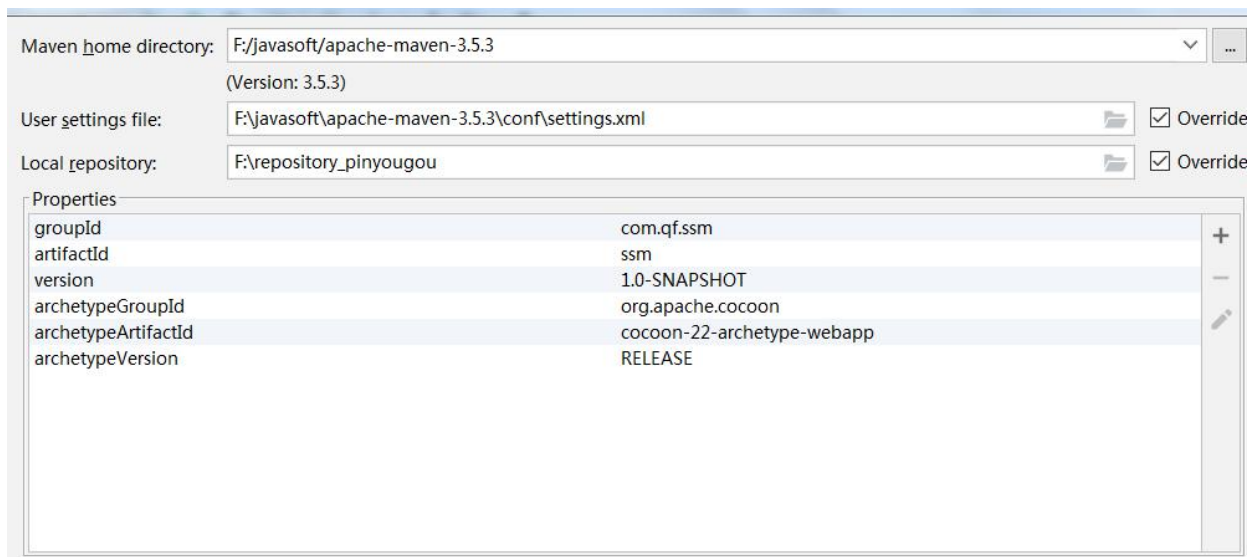
7.1.选择maven选项，选择JDK版本，勾选图示所示的“Create From Archetype”复选框，选择maven模板，点击【Next】



7.2写maven的坐标，“groupId”，“artifactId”，以及“version”，其中groupId是公司域名的反写，而artifactId是项目名或模块名，version就是该项目或模块所对应的版本号，填写完之后，点击【Next】



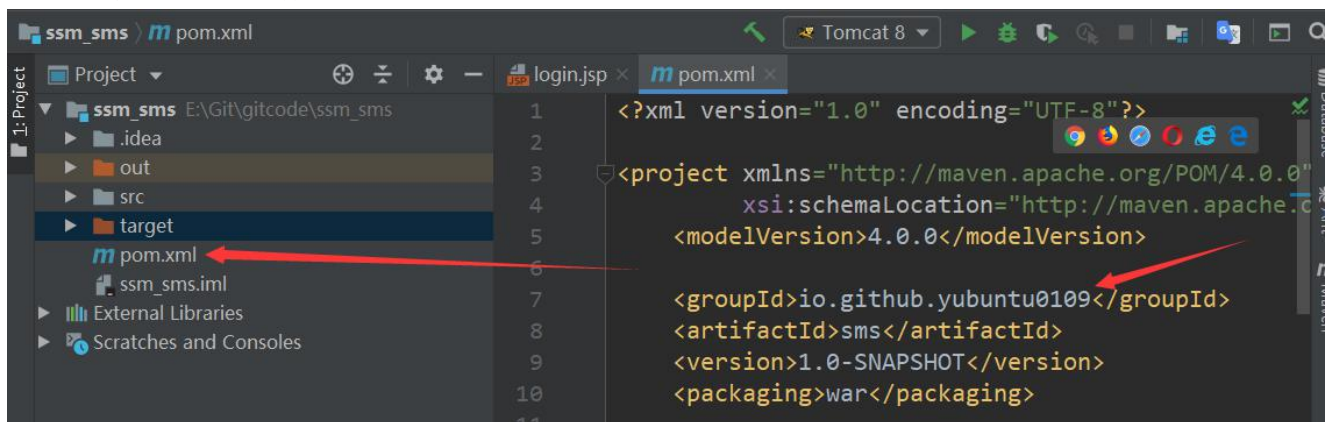
7.3.选择本地的maven，选择maven得配置文件路径及本地maven仓库路径，选择完成后点击【Next】



#### 7.4 填写项目名，后点击【Finish】



7.5 会maven的主页面，maven会自动下载maven依赖，当所有的都自动完成后，创建的maven项目结构如下所示：



## 7.6 导入项目所需要依赖pom.xml

```
1 <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/maven-v4_0_0.xsd">
2   <modelVersion>4.0.0</modelVersion>
3   <name>ssm</name>
4   <groupId>io.github.yubuntu0109</groupId>
5   <artifactId>ssm</artifactId>
6   <version>1.0-SNAPSHOT</version>
7   <packaging>war</packaging>
8
```

```
9  <!-- FIXME change it to the project's website -->
10 <url>http://www.example.com</url>
11
12 <properties>
13 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
14 <project.build.spring.webmvc.version>5.1.7.RELEASE</project.build.spring.webmvc.version>
15 <project.build.spring.webmvc.file.version>1.4</project.build.spring.webmvc.file.version>
16 <project.build.spring.webmvc.json.version>2.9.10</project.build.spring.webmvc.json.version>
17 <project.build.spring.jdbc.version>5.1.7.RELEASE</project.build.spring.jdbc.version>
18 <project.build.mybatis.version>3.5.1</project.build.mybatis.version>
19 <project.build.mybatis.pagehelper.version>5.1.9</project.build.mybatis.pagehelper.version>
20 <project.build.mybatis.spring.version>2.0.1</project.build.mybatis.spring.version>
21 <project.build.servlet.version>4.0.1</project.build.servlet.version>
22 <project.build.jstl.version>1.2</project.build.jstl.version>
23 <project.build.mysql.jdbc.version>8.0.16</project.build.mysql.jdbc.version>
24 <project.build.mysql.c3p0.version>0.9.5.4</project.build.mysql.c3p0.version>
25 <project.build.logging.version>1.2</project.build.logging.version>
26 <maven.compiler.source>1.8</maven.compiler.source>
27 <maven.compiler.target>1.8</maven.compiler.target>
28 </properties>
29
30 <dependencies>
31 <!-- spring mvc -->
32 <dependency>
33 <groupId>org.springframework</groupId>
34 <artifactId>spring-webmvc</artifactId>
35 <version>${project.build.spring.webmvc.version}</version>
36 </dependency>
37 <!-- Spring mvc:JSON -->
38 <dependency>
39 <groupId>com.fasterxml.jackson.core</groupId>
40 <artifactId>jackson-databind</artifactId>
```

```
41 <version>${project.build.spring.webmvc.json.version}</version>
42 </dependency>
43 <!-- Spring mvc:file -->
44 <dependency>
45 <groupId>commons-fileupload</groupId>
46 <artifactId>commons-fileupload</artifactId>
47 <version>${project.build.spring.webmvc.file.version}</version>
48 </dependency>
49 <!-- Spring JDBC -->
50 <dependency>
51 <groupId>org.springframework</groupId>
52 <artifactId>spring-jdbc</artifactId>
53 <version>${project.build.spring.jdbc.version}</version>
54 </dependency>
55 <!-- MyBatis -->
56 <dependency>
57 <groupId>org.mybatis</groupId>
58 <artifactId>mybatis</artifactId>
59 <version>${project.build.mybatis.version}</version>
60 </dependency>
61 <!-- MyBatis 分页插件 -->
62 <dependency>
63 <groupId>com.github.pagehelper</groupId>
64 <artifactId>pagehelper</artifactId>
65 <version>${project.build.mybatis.pagehelper.version}</version>
66 </dependency>
67 <!-- Mybatis与Spring的整合包 -->
68 <dependency>
69 <groupId>org.mybatis</groupId>
70 <artifactId>mybatis-spring</artifactId>
71 <version>${project.build.mybatis.spring.version}</version>
72 </dependency>
73 <!-- Servlet API -->
74 <dependency>
75 <groupId>javax.servlet</groupId>
76 <artifactId>javax.servlet-api</artifactId>
77 <version>${project.build.servlet.version}</version>
78 <scope>provided</scope>
79 </dependency>
80 <!-- JSTL -->
```



```
81 <dependency>
82 <groupId>javax.servlet</groupId>
83 <artifactId>jstl</artifactId>
84 <version>${project.build.jstl.version}</version>
85 </dependency>
86 <!-- 数据库驱动 -->
87 <dependency>
88 <groupId>mysql</groupId>
89 <artifactId>mysql-connector-java</artifactId>
90 <version>${project.build.mysql.jdbc.version}</version>
91 </dependency>
92 <!-- 数据库连接池 -->
93 <dependency>
94 <groupId>com.mchange</groupId>
95 <artifactId>c3p0</artifactId>
96 <version>${project.build.mysql.c3p0.version}</version>
97 </dependency>
98 <!-- 日志组件 -->
99 <dependency>
100 <groupId>commons-logging</groupId>
101 <artifactId>commons-logging</artifactId>
102 <version>${project.build.logging.version}</version>
103 </dependency>
104 </dependencies>
105
106 <build>
107 <finalName>sms</finalName>
108 <pluginManagement><!-- lock down plugins versions to avoid using Maven
109 defaults (may be moved to parent pom) -->
110 <plugins>
111 <plugin>
112 <artifactId>maven-clean-plugin</artifactId>
113 <version>3.1.0</version>
114 </plugin>
115 <!-- see http://maven.apache.org/ref/current/maven-core/default-bindin
116 s.html#Plugin_bindings_for_war_packaging -->
117 <plugin>
118 <artifactId>maven-resources-plugin</artifactId>
119 <version>3.0.2</version>
120 </plugin>
121 </plugins>
122 </pluginManagement>
123 </build>
```



```

120 <artifactId>maven-compiler-plugin</artifactId>
121 <version>3.8.0</version>
122 </plugin>
123 <plugin>
124 <artifactId>maven-surefire-plugin</artifactId>
125 <version>2.22.1</version>
126 </plugin>
127 <plugin>
128 <artifactId>maven-war-plugin</artifactId>
129 <version>3.2.2</version>
130 </plugin>
131 <plugin>
132 <artifactId>maven-install-plugin</artifactId>
133 <version>2.5.2</version>
134 </plugin>
135 <plugin>
136 <artifactId>maven-deploy-plugin</artifactId>
137 <version>2.8.2</version>
138 </plugin>
139 </plugins>
140 <pluginManagement>
141 <build>
142
143 </project>

```

## 配置文件resource

创建database-conf文件夹下面c3p0.properties

```

1 ##### database configuration information #####
2 c3p0.jdbcUrl=jdbc:mysql://LOCALHOST:3306/ssm_sms?useSSL=false&serverTimezone=UTC&allowPublicKeyRetrieval=true
3 c3p0.driverClass=com.mysql.cj.jdbc.Driver
4 c3p0.user=root
5 c3p0.password=root
6 ##### C3P0 configuration information #####
7 c3p0.maxPoolSize=100
8 c3p0.minPoolSize=1
9 c3p0.initialPoolSize=5
10 c3p0.maxIdleTime=1800

```

创建mybatis-conf文件夹下面创建mybatis-conf.xml

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

```

2 <!DOCTYPE configuration PUBLIC "-//mybatis.org//DTD Config 3.0//EN" "http://mybatis.org/dtd/mybatis-3-config.dtd">
3 <configuration>
4 <!-- 为sql映射文件中的输入/输出参数设置类型别名 -->
5 <typeAliases>
6 <package name="com.cc.sms.bean"/>
7 </typeAliases>
8 </configuration>

```

## 创建spring-conf文件夹下面创建applicationContext.xml

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xmlns:context="http://www.springframework.org/schema/context"
5   xmlns:tx="http://www.springframework.org/schema/tx"
6   xsi:schemaLocation="http://www.springframework.org/schema/beans
7     http://www.springframework.org/schema/beans/spring-beans.xsd
8     http://www.springframework.org/schema/context
9     https://www.springframework.org/schema/context/spring-context.xsd
10    http://www.springframework.org/schema/tx
11    http://www.springframework.org/schema/tx/spring-tx.xsd">
12 <description>Spring configuration file</description>
13
14 <!-- 读取c3p0.properties中的数据库配置信息 -->
15 <context:property-placeholder location="classpath:database-conf/c3p0.properties"/>
16
17 <!-- 配置数据源 -->
18 <bean id="dataSource"
19   class="com.mchange.v2.c3p0.ComboPooledDataSource">
20 <!-- 数据库驱动 -->
21 <property name="driverClass" value="${c3p0.driverClass}"/>
22 <!-- 连接数据库的url -->
23 <property name="jdbcUrl" value="${c3p0.jdbcUrl}"/>
24 <!-- 连接数据库的用户名 -->
25 <property name="user" value="${c3p0.user}"/>
26 <!-- 连接数据库的密码 -->
27 <property name="password" value="${c3p0.password}"/>
28 <!-- 初始化连接数 -->
29 <property name="initialPoolSize" value="${c3p0.initialPoolSize}"/>
30 <!-- 最大连接数 -->

```

```
30 <property name="maxPoolSize" value="${c3p0.maxPoolSize}"/>
31 <!-- 最小连接数 -->
32 <property name="minPoolSize" value="${c3p0.minPoolSize}"/>
33 <!-- 连接的生存时间 -->
34 <property name="maxIdleTime" value="${c3p0.maxIdleTime}"/>
35 </bean>
36
37 <!-- 配置Spring事务管理器 -->
38 <bean id="transactionManager" class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
39 <!-- 原理:控制数据源 -->
40 <property name="dataSource" ref="dataSource"/>
41 </bean>
42
43 <!-- 开启事务注解扫描 -->
44 <tx:annotation-driven transaction-manager="transactionManager"/>
45
46 <!-- MyBatis与Spring整合 -->
47 <bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
48 <!-- 注入数据源 -->
49 <property name="dataSource" ref="dataSource"/>
50 <!-- 指定Mapper映射文件位置 -->
51 <property name="mapperLocations" value="classpath:mapper/*.xml"/>
52 <!-- 指定MyBatis核心配置文件位置 -->
53 <property name="configLocation" value="classpath:/mybatis-conf/mybatis-config.xml"/>
54 <!-- 引入插件 -->
55 <property name="plugins">
56 <array>
57 <!-- 引入MyBatis分页插件 -->
58 <bean class="com.github.pagehelper.PageInterceptor">
59 <property name="properties">
60 <!-- 指定数据库类型 -->
61 <value>helperDialect=mysql</value>
62 <property>
63 <bean>
64 <array>
65 <property>
66 <bean>
67
```

```

68 <!-- 开启Mapper接口扫描器：扫描Dao层 -->
69 <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
70 <property name="basePackage" value="com.cc.sms.dao"/>
71 </bean>
72
73 <!-- 开启Spring IOC注解扫描器：扫描Service层-->
74 <context:component-scan base-package="com.cc.sms.service"/>
75
76
77
78 </beans>

```

## springmvc-config.xml

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4   xmlns:context="http://www.springframework.org/schema/context"
5   xmlns:mvc="http://www.springframework.org/schema/mvc"
6   xsi:schemaLocation="http://www.springframework.org/schema/beans
7     http://www.springframework.org/schema/beans/spring-beans.xsd
8     http://www.springframework.org/schema/context
9     http://www.springframework.org/schema/context/spring-context.xsd
10    http://www.springframework.org/schema/mvc
11    https://www.springframework.org/schema/mvc/spring-mvc.xsd">
12
13   <description>Spring-MVC configuration file</description>
14
15   <!-- 启用注解扫描器：扫描被@Controller注解的类 -->
16   <context:component-scan base-package="com.cc.sms.controller"/>
17
18   <!-- 加载注解驱动 -->
19   <mvc:annotation-driven/>
20
21   <!-- 处理静态资源 -->
22   <mvc:default-servlet-handler/>
23
24   <!-- 配置拦截器 -->
25   <mvc:interceptors>
26     <mvc:interceptor>
27       <mvc:mapping path="/**"/>
28       <mvc:exclude-mapping path="/static/h-ui/**"/>

```

```

29 <mvc:exclude-mapping path="/static/easyui/**"/>
30 <mvc:exclude-mapping path="/system/login"/>
31 <mvc:exclude-mapping path="/system/getVerifyCodeImage"/>
32 <bean class="com.cc.sms.interceptor.LoginInterceptor"/>
33 </mvc:interceptor>
34 </mvc:interceptors>
35
36 <!-- 配置文件上传解析器 -->
37 <bean id="multipartResolver" class="org.springframework.web.multipart.c
commons.CommonsMultipartResolver">
38 <!-- 指定请求编码格式 -->
39 <property name="defaultEncoding" value="UTF-8"/>
40 <!-- 指定指定允许上传文件的最大值(20MB) -->
41 <property name="maxUploadSize" value="20971520"/>
42 </bean>
43
44 <!-- 配置视图解析器 -->
45 <bean class="org.springframework.web.servlet.view.InternalResourceViewR
esolver">
46 <property name="prefix" value="/WEB-INF/view/">
47 <property name="suffix" value=".jsp"/>
48 </bean>
49
50 </beans>

```

## 导入webapp下面静态资源

## 导入WEB-INF下面view项目前端页面

### 配置web.xml

```

1 <!DOCTYPE web-app PUBLIC
2 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
3 "http://java.sun.com/dtd/web-app_2_3.dtd" >
4
5 <web-app>
6 <display-name>Archetype Created Web Application</display-name>
7 <description>a simple student management system,created by SSM framework
~</description>
8
9 <!-- 启动Spring -->
10 <context-param>
11 <!-- 启动Spring：加载Spring核心配置 -->

```

```
12 <param-name>contextConfigLocation</param-name>
13 <!-- 注意：使用classpath:path(防止异常:FileNotFoundException) -->
14 <param-value>classpath:spring-conf/applicationContext.xml</param-value>
15 </context-param>
16
17 <!-- 配置Spring MVC编码过滤器 -->
18 <filter>
19 <filter-name>encoding</filter-name>
20 <filter-class>org.springframework.web.filter.CharacterEncodingFilter</f
ilter-class>
21 <init-param>
22 <param-name>encoding</param-name>
23 <param-value>UTF-8</param-value>
24 </init-param>
25 <init-param>
26 <param-name>forceRequestEncoding</param-name>
27 <param-value>true</param-value>
28 </init-param>
29 <init-param>
30 <param-name>forceResponseEncoding</param-name>
31 <param-value>true</param-value>
32 </init-param>
33 </filter>
34 <filter-mapping>
35 <filter-name>encoding</filter-name>
36 <url-pattern>/*</url-pattern>
37 </filter-mapping>
38
39 <!-- 启动Spring：配置加载Spring文件的监听器 -->
40 <listener>
41 <listener-
class>org.springframework.web.context.ContextLoaderListener</listener-
class>
42 </listener>
43
44 <!-- 启动Spring MVC -->
45 <servlet>
46 <!-- 配置Spring MVC的前端核心控制器 -->
47 <servlet-name>spring_mvc</servlet-name>
48 <servlet-class>org.springframework.web.servlet.DispatcherServlet</servl
et-class>
```

```

49 <!-- 加载Spring MVC配置文件 -->
50 <init-param>
51 <param-name>contextConfigLocation</param-name>
52 <param-value>classpath:spring-conf/springmvc-config.xml</param-value>
53 </init-param>
54 <!-- 服务器启动后立即加载Spring MVC配置文件 -->
55 <load-on-startup>1</load-on-startup>
56 </servlet>
57 <servlet-mapping>
58 <servlet-name>spring_mvc</servlet-name>
59 <url-pattern>/</url-pattern>
60 </servlet-mapping>
61
62 <welcome-file-list>
63 <welcome-file>index.jsp</welcome-file>
64 </welcome-file-list>
65
66 </web-app>

```

## web.xml

```

1 <!DOCTYPE web-app PUBLIC
2 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
3 "http://java.sun.com/dtd/web-app_2_3.dtd" >
4
5 <web-app>
6 <display-name>Archetype Created Web Application</display-name>
7 <description>a simple student management system,created by SSM framework
~</description>
8
9 <!-- 启动Spring -->
10 <context-param>
11 <!-- 启动Spring: 加载Spring核心配置 -->
12 <param-name>contextConfigLocation</param-name>
13 <!-- 注意: 使用classpath:path(防止异常:FileNotFoundException) -->
14 <param-value>classpath:spring-conf/applicationContext.xml</param-value>
15 </context-param>
16
17 <!-- 配置Spring MVC编码过滤器 -->
18 <filter>
19 <filter-name>encoding</filter-name>

```



```
20 <filter-class>org.springframework.web.filter.CharacterEncodingFilter</f
ilter-class>
21 <init-param>
22 <param-name>encoding</param-name>
23 <param-value>UTF-8</param-value>
24 </init-param>
25 <init-param>
26 <param-name>forceRequestEncoding</param-name>
27 <param-value>true</param-value>
28 </init-param>
29 <init-param>
30 <param-name>forceResponseEncoding</param-name>
31 <param-value>true</param-value>
32 </init-param>
33 </filter>
34 <filter-mapping>
35 <filter-name>encoding</filter-name>
36 <url-pattern>/*</url-pattern>
37 </filter-mapping>
38
39 <!-- 启动Spring：配置加载Spring文件的监听器 -->
40 <listener>
41 <listener-
class>org.springframework.web.context.ContextLoaderListener</listener-
class>
42 </listener>
43
44 <!-- 启动Spring MVC -->
45 <servlet>
46 <!-- 配置Spring MVC的前端核心控制器 -->
47 <servlet-name>spring_mvc</servlet-name>
48 <servlet-class>org.springframework.web.servlet.DispatcherServlet</servl
et-class>
49 <!-- 加载Spring MVC配置文件 -->
50 <init-param>
51 <param-name>contextConfigLocation</param-name>
52 <param-value>classpath:spring-conf/springmvc-config.xml</param-value>
53 </init-param>
54 <!-- 服务器启动后立即加载Spring MVC配置文件 -->
55 <load-on-startup>1</load-on-startup>
56 </servlet>
```

```

57 <servlet-mapping>
58 <servlet-name>spring_mvc</servlet-name>
59 <url-pattern>/</url-pattern>
60 </servlet-mapping>
61
62 <welcome-file-list>
63 <welcome-file>index.jsp</welcome-file>
64 </welcome-file-list>
65
66 </web-app>

```

## 搭建后端架构

```

1 src/main/java/com/cc/sms/bean 实体类
2 src/main/java/com/cc/sms/controller 控制器
3 src/main/java/com/cc/sms/dao 数据库操作
4 src/main/java/com/cc/sms/interceptor 拦截器
5 src/main/java/com/cc/sms/service 业务层
6 src/main/java/com/cc/sms/service/inpl 业务实现
7 src/main/java/com/cc/sms/util 工具类
8

```

导入J2EE包

LoginInterceptor

导入工具类验证码

验证码 CreateVerifiCodeImage

文件上传 UploadFile

resource下面创建mapper映射文件夹

## 用户登录模块

查看index.jsp

```

1 <%-- 重定向到用户登录页面 --%>
2 <% response.sendRedirect("system/goLogin"); %>

```

创建数据库对应bean实体类

Admin

```

1 public class Admin {
2
3     private Integer id;
4     private String name;
5     private char gender;

```

```
6 private String password;
7 private String email;
8 private String telephone;
9 private String address;
10 private String portrait_path;//存储头像的项目路径
```

## Clazz

```
1 public class Clazz {
2     //班级信息
3     private Integer id;
4     private String name;
5     private String number;
6     private String introduction;
7     //班主任信息
8     private String coordinator;
9     private String telephone;
10    private String email;
11    //所属年级
12    private String grade_name;
13
14    public Clazz(String name, String grade_name) {
15        this.name = name;
16        this.grade_name = grade_name;
17    }
```

## Grade

```
1 public class Grade {
2
3     //年级信息
4     private Integer id;
5     private String name;
6     private String introduction;
7     //年级主任信息
8     private String manager;
9     private String email;
10    private String telephone;
```

## LoginForm

```
1 public class LoginForm {
2
3     private String username;
```

```
4 private String password;
5 private String verifiCode;
6 private Integer userType;
```

## Student

```
1 public class Student {
2
3     private Integer id;
4     private String sno;
5     private String name;
6     private char gender = '男';//default
7     private String password;
8     private String email;
9     private String telephone;
10    private String address;
11    private String introduction;
12    private String portrait_path;//存储头像的项目路径
13    private String clazz_name;//班级名称
14
15    public Student(String name, String clazz_name) {
16        this.name = name;
17        this.clazz_name = clazz_name;
18    }
```

## Teacher

```
1 public class Teacher {
2
3     private Integer id;
4     private String tno;
5     private String name;
6     private char gender;
7     private String password;
8     private String email;
9     private String telephone;
10    private String address;
11    private String clazz_name;
12    private String portrait_path;//存储头像的项目路径
13
14    public Teacher(String name, String clazz_name) {
```

```
15     this.name = name;
16     this.clazz_name = clazz_name;
17 }
```

## 查看index.jsp

```
1 <!-- 重定向到用户登录页面 -->
2 <% response.sendRedirect("system/goLogin"); %>
```

## 创建用户登录转发到登录页面Controller

```
1 @Controller
2 @RequestMapping("/system")
3 public class SystemController {
4     //注入业务对象
5     @Autowired
6     private AdminService adminService;
7     @Autowired
8     private TeacherService teacherService;
9     @Autowired
10    private StudentService studentService;
11    //存储返回给页面的对象数据
12    private Map<String, Object> result = new HashMap<>();
13    /**
14     * @description: 跳转到用户登录页面
15     *
16     *
17     * @return: java.lang.String
18     */
19    @GetMapping("/goLogin")
20    public String goLogin() {
21        return "system/login";
22    }
23    /**
24     * @description: 获取并显示验证码图片
25     * @param: request
26     * @param: response
27     *
28     * @return: void
29     */
30    @GetMapping("/getVerifyCodeImage")
```

```

31 public void getVerifyCodeImage(HttpServletRequest request, HttpServletResponse response) {
32     // 验证码图片
33     BufferedImage verifyCodeImage = CreateVerifyCodeImage.getVerifyCodeImage();
34     // 验证码
35     String verifyCode =
String.valueOf(CreateVerifyCodeImage.getVerifyCode());
36     // 将验证码图片输出到登录页面
37     try {
38         ImageIO.write(verifyCodeImage, "JPEG", response.getOutputStream());
39     } catch (IOException e) {
40         e.printStackTrace();
41     }
42     // 存储验证码Session
43     request.getSession().setAttribute("verifyCode", verifyCode);
44 }
45

```

## 点击验证码实现

```

1 <!-- 页面事件 -->
2 <script type="text/javascript">
3     $(function () {
4         //点击图片切换验证码
5         $("#vcodeImg").click(function () {
6             this.src = "getVerifyCodeImage?t=" + new Date().getTime();
7         });
8
9     })
10 </script>

```

## 管理员登录

### login.jsp function里面书写

```

1 //登录按钮事件
2 $("#submitBtn").click(function () {
3     //检查登录信息

```

```

4  if ($('#username').val() === '') {
5  $.messager.alert("提示", "请输入用户名 !", "warning");
6  } else if ($('#password').val() === '') {
7  $.messager.alert("提示", "请输入密码 !", "warning");
8  } else if ($('#verifyCode').val() === '') {
9  $.messager.alert("提示", "请输入验证码 !", "warning");
10 } else {
11 //提交用户的登录表单信息
12 var data = $('#form').serialize();
13 $.ajax({
14 type: "post",
15 url: "login",
16 data: data,
17 dataType: "json",
18 success: function (data) {
19 if (data.success) {
20 window.location.href = "goSystemMainView";//进入系统主页面
21 } else {
22 $.messager.alert("提示", data.msg, "warning");
23 $("#vcodeImg").click();//切换验证码
24 $("input[name='vcode']").val("");//清空验证码输入框
25 }
26 }
27 });
28 }
29 });

```

## SystemController

```

1  @Controller
2  @RequestMapping("/system")
3  public class SystemController {
4
5  //注入业务对象
6  @Autowired
7  private AdminService adminService;
8  @Autowired
9  private TeacherService teacherService;
10 @Autowired
11 private StudentService studentService;

```

```
12
13 //存储返回给页面的对象数据
14 private Map<String, Object> result = new HashMap<>();
15
16 @PostMapping("login")
17 @ResponseBody
18 public Map<String, Object> login(LoginForm loginForm, HttpServletRequest request) {
19
20     // 校验验证码信息
21     String vcode = (String)
request.getSession().getAttribute("verifiCode");
22     if ("".equals(vcode)) {
23         result.put("success", false);
24         result.put("msg", "长时间为操作,会话已失效,请刷新页面后重试!");
25         return result;
26     } else if (!loginForm.getVerifiCode().equalsIgnoreCase(vcode)) {
27         result.put("success", false);
28         result.put("msg", "验证码错误!");
29         return result;
30     }
31     request.getSession().removeAttribute("verifyCode");
32
33     //效验用户登录信息
34     switch (loginForm.getUserType()) {
35         //管理员身份
36         case 1:
37             try {
38                 Admin admin = adminService.login(loginForm); //验证账户和密码是否存在
39                 if (admin != null) {
40                     HttpSession session = request.getSession(); //将用户信息存储到Session
41                     session.setAttribute("userInfo", admin);
42                     session.setAttribute("userType", loginForm.getUserType());
43                     result.put("success", true);
44                     return result;
45                 }
46             } catch (Exception e) {
47                 e.printStackTrace();
48                 result.put("success", false);
49                 result.put("msg", "登录失败! 服务器端发生异常!");
50                 return result;
51             }
52         default:
53             //普通用户身份
54             //TODO: 普通用户登录逻辑
55     }
56 }
```



```
51  }
52  break;
53  //学生身份
54  case 2:
55  try {
56  Student student = studentService.login(loginForm);
57  if (student != null) {
58  HttpSession session = request.getSession();
59  session.setAttribute("userInfo", student);
60  session.setAttribute("userType", loginForm.getUserType());
61  result.put("success", true);
62  return result;
63  }
64  } catch (Exception e) {
65  e.printStackTrace();
66  result.put("success", false);
67  result.put("msg", "登录失败! 服务器端发生异常!");
68  return result;
69  }
70  break;
71  //教师身份
72  case 3:
73  try {
74  Teacher teacher = teacherService.login(loginForm);
75  if (teacher != null) {
76  HttpSession session = request.getSession();
77  session.setAttribute("userInfo", teacher);
78  session.setAttribute("userType", loginForm.getUserType());
79  result.put("success", true);
80  return result;
81  }
82  } catch (Exception e) {
83  e.printStackTrace();
84  result.put("success", false);
85  result.put("msg", "登录失败! 服务器端发生异常!");
86  return result;
87  }
88  break;
89  }
90  //登录失败
```

```

91     result.put("success", false);
92     result.put("msg", "用户名或密码错误!");
93     return result;
94 }
95
96 /**
97  * @description: 跳转到系统主页面
98  * @param: no
99  * @return: java.lang.String
100  */
101 @GetMapping("/goSystemMainView")
102 public String goSystemMainView() {
103     return "system/main";
104 }
105 }

```

## AdminService

```

1 public interface AdminService {
2
3     Admin login(LoginForm loginForm);

```

## AdminServiceImpl

```

1 @Service
2 @Transactional
3 public class AdminServiceImpl implements AdminService {
4
5     //注入Mapper接口对象
6     @Autowired
7     private AdminMapper adminMapper;
8
9     @Override
10    public Admin login(LoginForm loginForm) { return adminMapper.login(loginForm); }

```

## AdminMapper

```

1 public interface AdminMapper {
2
3     Admin login(LoginForm loginForm);

```

# AdminMapper.xml

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
3 <mapper namespace="com.cc.sms.dao.AdminMapper">
4
5     <!-- 验证登录信息是否正确 -->
6     <select id="login" parameterType="loginForm" resultType="com.cc.sms.bean.Admin">
7         SELECT id,
8         name,
9         gender,
10        password,
11        email,
12        telephone,
13        address,
14        portrait_path
15     FROM tb_admin
16     WHERE name = #{username}
17     AND password = #{password}
18 </select>
```

学生

## studentService

```
1 public interface StudentService {
2     Student login(LoginForm loginForm);
```

## studentServiceImpl

```
1 @Service
2 @Transactional
3 public class StudentServiceImpl implements StudentService {
4
5     //注入Mapper接口对象
6     @Autowired
7     private StudentMapper studentMapper;
8
9     @Override
10    public Student login(LoginForm loginForm) {
```

```
11     return studentMapper.login(loginForm);
12 }
```

## StudentMapper

```
1 public interface StudentMapper {
2
3     Student login(LoginForm loginForm);
```

## StudentMapper.xml

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
3 <mapper namespace="com.cc.sms.dao.StudentMapper">
4
5     <!-- 验证登录信息是否正确 -->
6     <select id="login" parameterType="loginform" resultType="com.cc.sms.bean.Student">
7         SELECT id,
8             sno,
9             name,
10            gender,
11            password,
12            portrait_path,
13            email,
14            telephone,
15            address,
16            introduction,
17            class_name
18         FROM tb_student
19         WHERE name = #{username}
20             AND password = #{password}
21     </select>
```

## 用户注销

查看main.jsp

```
1 <a href="loginOut" id="loginOut" style="color: darkgrey;" class="easyui-linkbutton"
2   data-options="iconCls:'icon-exit',plain:true">
```

```
3 [安全退出]
4 </a>
```

## SystemController

```
1 @GetMapping("/loginOut")
2 public void loginOut(HttpServletRequest request, HttpServletResponse response) {
3     request.getSession().removeAttribute("userInfo");
4     request.getSession().removeAttribute("userType");
5
6     //注销后重定向到登录页面
7     try {
8         response.sendRedirect("../index.jsp");
9     } catch (IOException e) {
10         e.printStackTrace();
11     }
12 }
```

## 系统用户管理列表查询

查看main.jsp 点击管理员列表请求 "url": "../admin/goAdminListView"

```
1 {
2     "menuid": "5", "icon": "", "menuname": "系统用户管理",
3     "menus": [
4         {
5             "menuid": "25",
6             "menuname": "管理员列表",
7             "icon": "icon-admin",
8             "url": "../admin/goAdminListView"
9         }
10     ]
11 }
```

## AdminController

```
1 @Controller
2 @RequestMapping("/admin")
3 public class AdminController {
4
5     //注入业务对象
6     @Autowired
7     private AdminService adminService;
8 }
```

```

9 //存储预返回页面的结果对象
10 private Map<String, Object> result = new HashMap<>();
11
12 /**
13  * @description: 跳转到管理员信息管理页面
14  * @param: no
15  * @return: java.lang.String
16  */
17 @GetMapping("/goAdminListView")
18 public String getAdminList() {
19     return "admin/adminList";
20 }

```

转发到adminList,自动异步加载查询列表 查看adminList.jsp 返回列表数据显示在表单

```

1 $('#dataList').datagrid({
2     iconCls: 'icon-more',//图标
3     border: true,
4     collapsible: false,//是否可折叠
5     fit: true,//自动大小
6     method: "post",
7     url: "getAdminList?t" + new Date().getTime(),

```

## AdminController

```

1 /**
2  * @description: 分页查询:根据管理员姓名获取指定/所有管理员信息列表
3  * @param: page 当前页码
4  * @param: rows 列表行数
5  * @param: username 管理员姓名
6  * @return: java.util.Map<java.lang.String, java.lang.Object>
7  */
8 @PostMapping("/getAdminList")
9 @ResponseBody
10 public Map<String, Object> getAdminList(Integer page, Integer rows, String username) {
11
12     //获取查询的用户名
13     Admin admin = new Admin();
14     admin.setName(username);
15     //设置每页的记录数
16     PageHelper.startPage(page, rows);

```

```

17 //根据姓名获取指定或所有管理员列表信息
18 List<Admin> list = adminService.selectList(admin);
19 //封装查询结果
20 PageInfo<Admin> pageInfo = new PageInfo<>(list);
21 //获取总记录数
22 long total = pageInfo.getTotal();
23 //获取当前页数据列表
24 List<Admin> adminList = pageInfo.getList();
25 //存储对象数据
26 result.put("total", total);
27 result.put("rows", adminList);
28
29 return result;
30 }

```

## AdminService

```

1 // TODO: 根据姓名查询指定/所有管理员信息列表
2 List<Admin> selectList(Admin admin);

```

## AdminServiceImpl

```

1 @Override
2 public List<Admin> selectList(Admin admin) {
3     return adminMapper.selectList(admin);
4 }

```

## AdminMapper

```

1 根据姓名查询指定/所有管理员信息列表
2 List<Admin> selectList(Admin admin);

```

## AdminMapper.xml

```

1 <!-- 根据姓名模糊查询指定/所有管理员信息 列表 -->
2 <select id="selectList" parameterType="admin" resultType="com.cc.sms.b
  ean.Admin">
3     SELECT id, name, gender, password, email, telephone, address, portrait_p
  ath
4     FROM tb_admin
5     <where>
6     <!-- name为Admin中的属性名(在Controller层中已将查询的姓名封装到了Admin中的na
  me属性中) -->
7     <if test="name!=null and name!='">
8     AND name LIKE concat(concat('%',#{name}),'%')

```

```
9    </if>
10   </where>
11 </select>
```

## 系统用户管理添加管理员

查看AdminList

```
1  text: '添加',
2  plain: true,
3  iconCls: 'icon-user_add',
4  handler: function () {
5      var validate = $("#addForm").form("validate");
6      if (!validate) {
7          $.messager.alert("消息提醒", "请检查你输入的数据哟 !", "warning");
8      } else {
9          var data = $("#addForm").serialize();//序列化表单信息
10         $.ajax({
11             type: "post",
12             url: "addAdmin",
13             data: data,
14             dataType: 'json',
```

AdminController

```
1  /**
2   * @description: 添加管理员信息
3   * @param: admin
4   * @return: java.util.Map<java.lang.String, java.lang.Object>
5   */
6  @PostMapping("/addAdmin")
7  @ResponseBody
8  public Map<String, Object> addAdmin(Admin admin) {
9      //判断用户名是否已存在
10     Admin user = adminService.findByName(admin.getName());
11     if (user == null) {
12         if (adminService.insert(admin) > 0) {
13             result.put("success", true);
14         } else {
15             result.put("success", false);
16             result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");
17         }
18     } else {
19         result.put("success", false);
```



```
20 result.put("msg", "该用户名已存在! 请修改后重试!");
21 }
22 return result;
23 }
```

## AdminService

```
1 // TODO: 根据用户名查询指定管理员信息
2 Admin findByName(String name);
3
4 // TODO: 添加管理员信息
5 int insert(Admin admin);
```

## AdminServiceImpl

```
1 @Override
2 public Admin findByName(String name) {
3     return adminMapper.findByName(name);
4 }
5
6 @Override
7 public int insert(Admin admin) {
8     return adminMapper.insert(admin);
9 }
```

## AdminMapper

```
1 // TODO: 通过姓名查询指定管理员信息
2 Admin findByName(String name);
3
4 // TODO: 添加管理员信息
5 int insert(Admin admin);
```

## AdminMapper.xml

```
1 <!-- 根据id查询指定管理员信息 -->
2 <select id="findByName" parameterType="String" resultType="com.cc.sms.
  bean.Admin">
3     SELECT id,
4     name,
5     gender,
6     password,
7     email,
```

```

8   telephone,
9   address,
10  portrait_path
11  FROM tb_admin
12  WHERE name = #{name}
13 </select>
14
15 <!-- 添加管理员信息 -->
16 <insert id="insert" parameterType="admin">
17   INSERT INTO tb_admin(name, gender, password, email, telephone, address,
18   portrait_path)
19   VALUES (#{name}, #{gender}, #{password}, #{email}, #{telephone}, #{address}, #{portrait_path})
20 </insert>

```

## 根据id修改指定管理员信息

### 查看AdminLsit.jsp

```

1  var data = $("#editForm").serialize();//序列化表单信息
2  $.ajax({
3    type: "post",
4    url: "editAdmin?t=" + new Date().getTime(),
5    data: data,
6    dataType: 'json',

```

### AdminController

```

1  /**
2   * @description: 根据id修改指定管理员信息
3   * @param: admin
4   * @return: java.util.Map<java.lang.String, java.lang.Object>
5   */
6  @PostMapping("/editAdmin")
7  @ResponseBody
8  public Map<String, Object> edityAdmin(Admin admin) {
9    //需排除用户只修改账户名以外的信息
10   Admin user = adminService.findByName(admin.getName());
11   if (user != null) {
12     if (!(admin.getId().equals(user.getId()))) {

```

```

13  result.put("success", false);
14  result.put("msg", "该用户名已存在! 请修改后重试!");
15  return result;
16  }
17  }
18  //修改操作
19  if (adminService.update(admin) > 0) {
20  result.put("success", true);
21  } else {
22  result.put("success", false);
23  result.put("msg", "修改失败! (ಥ_ಥ)服务器端发生异常!");
24  }
25  return result;
26  }

```

## AdminService

```

1  // TODO: 根据id更新指定管理员信息
2  int update(Admin admin);

```

## AdminServiceImpl

```

1  @Override
2  public int update(Admin admin) { return adminMapper.update(admin); }

```

## AdminMapper

```

1  // TODO: 根据姓名查询指定/所有管理员信息列表
2  List<Admin> selectList(Admin admin);

```

## AdminMapper.xml

```

1  <!-- 根据id更新指定管理员信息 -->
2  <update id="update" parameterType="admin">
3  UPDATE tb_admin
4  <set>
5  <if test="name!=null and name!=''">name=#{name},</if>
6  <if test="gender!=null and gender!=''">gender=#{gender},</if>
7  <if test="email!=null and email!=''">email=#{email},</if>
8  <if test="telephone!=null and telephone!=''">telephone=#{telephone},
</if>
9  <if test="address!=null and address!=''">address=#{address},</if>

```

```

10 <if test="portrait_path!=null and portrait_path!=''">portrait_path=#{po
    rtrait_path},</if>
11 </set>
12 WHERE id = #{id}
13 </update>

```

删除指定id的管理员信息

查看AdminList.jsp

```

1 $.ajax({
2   type: "post",
3   url: "deleteAdmin?t" + new Date().getTime(),
4   data: {ids: ids},
5   dataType: 'json',

```

## AdminController

```

1 /**
2  * @description: 删除指定id的管理员信息
3  * @param: ids 拼接后的id
4  * @return: java.util.Map<java.lang.String, java.lang.Object>
5  */
6 @PostMapping("/deleteAdmin")
7 @ResponseBody
8 public Map<String, Object> deleteAdmin(@RequestParam(value = "ids[]", req
    uired = true) Integer[] ids) {
9
10   if (adminService.deleteById(ids) > 0) {
11     result.put("success", true);
12   } else {
13     result.put("success", false);
14   }
15   return result;
16 }

```

## AdminService

```

1 // TODO: 根据id删除管理员信息
2 int deleteById(Integer[] ids);

```

## AdminServiceImpl

```
1 @Override
2 public int deleteById(Integer[] ids) {
3     return adminMapper.deleteById(ids);
4 }
```

## AdminMapper

```
1 // TODO: 根据id删除指定管理员信息
2 int deleteById(Integer[] ids);
```

## AdminMapper.xml

```
1 <!-- 根据id批量删除管理员信息 -->
2 <delete id="deleteById">
3     DELETE FROM ssm_sms.tb_admin WHERE id IN
4     <foreach collection="array" item="ids" open="(" separator="," close=")">
5         #{ids}
6     </foreach>
7 </delete>
```

上传头像-原理:将头像上传到项目发布目录中,通过读取数据库中的头像路径来获取头像

查看AdminList.jsp

```
1 <!-- 头像信息表单 -->
2 <form id="add-uploadForm" method="post" enctype="multipart/form-data" action="uploadPhoto"
3     target="photo_target">
4     <input id="choose-portrait" class="easyui-filebox" name="photo" data-options="prompt:'选择照片'"
5         style="width:200px;">
6     <input id="add-upload-btn" class="easyui-linkbutton" style="width: 50px;
7         height: 24px;;float:right;"
8         type="button" value="上传"/>
9 </form>
```

## AdminController

```
1 /**
```

```

2  @description: 上传头像 原理:将头像上传到项目发布目录中,通过读取数据库中的头像
   路径来获取头像
3  * @param: photo
4  * @param: request
5  * @return: java.util.Map<java.lang.String, java.lang.Object>
6  */
7  @PostMapping("/uploadPhoto")
8  @ResponseBody
9  public Map<String, Object> uploadPhoto(MultipartFile photo, HttpServletRequest
   request) {
10     //存储头像的本地目录
11     final String dirPath = request.getServletContext().getRealPath("/upload/
   admin_portrait/");
12     //存储头像的项目发布目录
13     final String portraitPath =
   request.getServletContext().getContextPath() + "/upload/admin_portrait/";
14     //返回头像的上传结果
15     return UploadFile.getUploadResult(photo, dirPath, portraitPath);
16 }

```

## 修改管理员密码

查看main.jsp

```

1  menus": [
2  {
3      "menuid": "26",
4      "menuname": "修改密码",
5      "icon": "icon-settings",
6      "url": "../common/goSettingView"
7  }

```

## CommonController

```

1  @Controller
2  @RequestMapping("/common")
3  public class CommonController {
4
5      //注入业务对象
6      @Autowired
7      private AdminService adminService;
8      @Autowired

```

```

9  private TeacherService teacherService;
10 @Autowired
11 private StudentService studentService;
12
13 //存储预返回给页面的结果对象
14 private Map<String, Object> result = new HashMap<>();
15
16 /**
17  * @description: 跳转到个人信息管理页面
18  * @param: no
19  * @return: java.lang.String
20  */
21 @GetMapping("/goSettingView")
22 public String getAdminList() {
23     return "common/settings";
24 }
25

```

查看common下面settings.jsp

```

1 $.ajax({
2     type: "post",
3     url: "editPassword?t=" + new Date().getTime(),
4     data: data,
5     success: function (data) {

```

## CommonController

```

1 /**
2  * @description: 修改密码
3  * @param: oldPassword
4  * @param: newPassword
5  * @param: request
6  * @return: java.util.Map<java.lang.String, java.lang.Object>
7  */
8 @PostMapping("/editPassword")
9 @ResponseBody
10 public Map<String, Object> editPassword(String oldPassword, String newPassword, HttpServletRequest request) {
11     //判断当前登录用户的用户类型
12     int userType = Integer.parseInt(request.getSession().getAttribute("userType").toString());

```

```
13 //管理员身份
14 if (userType == 1) {
15     Admin admin = (Admin) request.getSession().getAttribute("userInfo");
16     if (!admin.getPassword().equals(oldPassword)) {
17         result.put("success", false);
18         result.put("msg", "原密码错误!");
19         return result;
20     }
21     try {
22         //修改密码
23         admin.setPassword(newPassword); //覆盖旧密码值,存储待更新的密码
24         if (adminService.updatePassowrd(admin) > 0) {
25             result.put("success", true);
26         }
27     } catch (Exception e) {
28         e.printStackTrace();
29         result.put("success", false);
30         result.put("msg", "修改失败! 服务器端发生异常!");
31     }
32 }
33
34 //学生身份
35 if (userType == 2) {
36     Student student = (Student) request.getSession().getAttribute("userInfo");
37     if (!student.getPassword().equals(oldPassword)) {
38         result.put("success", false);
39         result.put("msg", "原密码错误!");
40         return result;
41     }
42     try {
43         student.setPassword(newPassword);
44         if (studentService.updatePassowrd(student) > 0) {
45             result.put("success", true);
46         }
47     } catch (Exception e) {
48         e.printStackTrace();
49         result.put("success", false);
50         result.put("msg", "修改失败! 服务器端发生异常!");
51     }
}
```



```

52  }
53
54  //教师身份
55  if (userType == 3) {
56  Teacher teacher = (Teacher) request.getSession().getAttribute("userInfo");
57  if (!teacher.getPassword().equals(oldPassword)) {
58  result.put("success", false);
59  result.put("msg", "原密码错误!");
60  return result;
61  }
62  try {
63  teacher.setPassword(newPassword);
64  if (teacherService.updatePassowrd(teacher) > 0) {
65  result.put("success", true);
66  }
67  } catch (Exception e) {
68  e.printStackTrace();
69  result.put("success", false);
70  result.put("msg", "修改失败! 服务器端发生异常!");
71  }
72  }
73
74  return result;
75  }

```

## AdminService

```

1  // TODO: 根据id修改指定用户密码
2  int updatePassowrd(Admin admin);

```

## AdminServiceImpl

```

1  @Override
2  public int updatePassowrd(Admin admin) {
3  return adminMapper.updatePassword(admin);
4  }

```

## AdminMapper

```

1  // TODO: 根据id修改指定管理员密码
2  int updatePassword(Admin admin);

```

## AdminMapper.xml

```
1 <!-- 根据id修改指定用户密码 -->
2 <update id="updatePassword" parameterType="admin">
3     UPDATE tb_admin
4     SET password = #{password}
5     WHERE id = #{id}
6 </update>
```

## 修改学生身份密码

## StudentService

```
1 // TODO: 根据id修改指定学生密码
2 int updatePassowrd(Student student);
```

## StudentServiceImpl

```
1 @Override
2 public int updatePassowrd(Student student) {
3     return studentMapper.updatePassword(student);
4 }
```

## StudentMapper

```
1 // TODO: 根据id修改指定学生密码
2 int updatePassword(Student student);
```

## StudentMapper.xml

```
1 <!-- 根据id修改指定学生密码 -->
2 <update id="updatePassword" parameterType="student">
3     UPDATE tb_student
4     SET password=#{password}
5     WHERE id = #{id}
6 </update>
```

## 修改教师密码

## TeacherService

```
1 // TODO: 根据id修改指定教师密码
2 int updatePassowrd(Teacher teacher);
```

## TeacherServiceImpl

```
1 @Override
2 public int updatePassowrd(Teacher teacher) {
3     return teacherMapper.updatePassword(teacher);
4 }
```

## TeacherMapper

```
1 // TODO: 根据id修改指定教师密码
2 int updatePassword(Teacher teacher);
```

## TeacherMapper.xml

```
1 <!-- 根据id修改指定教师密码 -->
2 <update id="updatePassword" parameterType="teacher">
3     UPDATE tb_teacher
4     SET password=#{password}
5     WHERE id = #{id}
6 </update>
```

## 年级信息管理

### 查看main.jsp

```
1 "menus": [
2     {
3         "menuid": "24",
4         "menuname": "年级列表",
5         "icon": "icon-grade",
6         "url": "../grade/goGradeListView"
7     }
```

## GradeController

```
1 @Controller
2 @RequestMapping("/grade")
3 public class GradeController {
4
5     // 注入业务对象
6     @Autowired
7     private GradeService gradeService;
```

```

8
9 // 存储预返回页面的结果对象
10 private Map<String, Object> result = new HashMap<>();
11
12 /**
13  * @description: 跳转到年级信息管理页面
14  * @param: no
15  * @return: java.lang.String
16  */
17 @GetMapping("/goGradeListView")
18 public String goGradeListPage() {
19     return "grade/gradeList";
20 }

```

## 查看gradeList.jsp年级列表查询

```

1 $('#dataList').datagrid({
2     iconCls: 'icon-more',//图标
3     border: true,
4     collapsible: false,//是否可折叠
5     fit: true,//自动大小
6     method: "post",
7     url: "getGradeList?t" + new Date().getTime(),
8     idField: 'id',

```

## GradeController

```

1 /**
2  * @description: 分页查询:根据年级名称获取指定/所有年级信息列表
3  * @param: page
4  * @param: rows
5  * @param: gradename
6  * @return: java.util.Map<java.lang.String, java.lang.Object>
7  */
8 @PostMapping("/getGradeList")
9 @ResponseBody
10 public Map<String, Object> getGradeList(Integer page, Integer rows, String gradename) {
11

```

```

12 //注意:使用Java Bean传递gradename,防止以下异常 !
13 //org.springframework.web.util.NestedServletException: Request processi
ng failed;
14 // nested exception is org.mybatis.spring.MyBatisSystemException:
15 // nested exception is org.apache.ibatis.reflection.ReflectionExceptio
n:
16 // There is no getter for property named 'name' in 'class java.lang.Str
ing'
17 Grade grade = new Grade();
18 grade.setName(gradename);
19
20 //设置每页的记录数
21 PageHelper.startPage(page, rows);
22 //根据年级名称获取指定或全部年级信息列表
23 List<Grade> list = gradeService.selectList(grade);
24 //封装信息列表
25 PageInfo<Grade> pageInfo = new PageInfo<>(list);
26 //获取总记录数
27 long total = pageInfo.getTotal();
28 //获取当前页数据列表
29 List<Grade> gradeList = pageInfo.getList();
30 //存储数据对象
31 result.put("total", total);
32 result.put("rows", gradeList);
33
34 return result;
35 }

```

## GradeService

```

1 // TODO: 根据年级名称查询指定/全部年级列表信息
2 List<Grade> selectList(Grade gradename);

```

## GradeServiceImpl

```

1 @Service
2 @Transactional
3 public class GradeServiceImpl implements GradeService {
4
5     //注入Mapper接口对象
6     @Autowired

```

```

7  private GradeMapper gradeMapper;
8
9  @Override
10 public List<Grade> selectList(Grade gradename) {
11     return gradeMapper.selectList(gradename);
12 }

```

## GradeMapper

```

1  public interface GradeMapper {
2
3      // TODO: 根据年级名称查询指定/全部年级信息列表
4      List<Grade> selectList(Grade gradename);

```

## GradeMapper.xml

```

1  <?xml version="1.0" encoding="UTF-8" ?>
2  <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
3  <mapper namespace="com.cc.sms.dao.GradeMapper">
4
5      <!-- 根据年级名称查询指定/全部年级信息列表 -->
6      <select id="selectList" parameterType="grade" resultType="com.cc.sms.bean.Grade">
7          SELECT id, name, manager, email, telephone, introduction
8          FROM ssm_sms.tb_grade
9      <where>
10         <if test="name!=null and name!=''">
11             AND name LIKE concat(concat('%',#{name}),'%')
12         </if>
13     </where>
14 </select>

```

## 年级列表添加查看gradeList.jsp

```

1  var data = $("#addForm").serialize();//序列化表单信息
2  $.ajax({
3      type: "post",
4      url: "addGrade?t" + new Date().getTime(),
5      data: data,

```

# GradeController

```
1 @PostMapping("/addGrade")
2 @ResponseBody
3 public Map<String, Object> addGrade(Grade grade) {
4     //判断年级名是否已存在
5     Grade name = gradeService.findByName(grade.getName());
6     if (name == null) {
7         if (gradeService.insert(grade) > 0) {
8             result.put("success", true);
9         } else {
10             result.put("success", false);
11             result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");
12         }
13     } else {
14         result.put("success", false);
15         result.put("msg", "该年级名称已存在! 请修改后重试!");
16     }
17
18     return result;
19 }
```

# GradeService

```
1 // TODO: 根据年级名称查询指定年级信息
2 Grade findByName(String gradename);
3
4 // TODO: 添加年级信息
5 int insert(Grade grade);
```

# GradeServiceImpl

```
1 @Override
2 public Grade findByName(String gradename) {
3     return gradeMapper.findByName(gradename);
4 }
5
6 @Override
7 public int insert(Grade grade) {
8     return gradeMapper.insert(grade);
9 }
```

# GradeMapper

```
1 // TODO: 根据年级名称查询指定的年级信息
2 Grade findByName(String gradename);
3
4 // TODO: 添加年级信息
5 int insert(Grade grade);
```

# GradeMapper.xml

```
1 <!-- 根据年级名称查询指定年级信息 -->
2 <select id="findByName" parameterType="String" resultType="com.cc.sms.
  bean.Grade">
3     SELECT id, name, manager, email, telephone, introduction
4     FROM ssm_sms.tb_grade
5     WHERE name = #{name}
6 </select>
7
8 <!-- 添加年级信息 -->
9 <insert id="insert" parameterType="grade">
10     INSERT INTO ssm_sms.tb_grade(name, manager, email, telephone, introduca
  tion)
11     VALUES (#{name}, #{manager}, #{email}, #{telephone}, #{introduction})
12 </insert>
```

# 编辑年级信息查看gradeList.jsp

```
1 $.ajax({
2     type: "post",
3     url: "editGrade?t=" + new Date().getTime(),
4     data: data,
5     dataType: 'json',
```

# GradeController

```
1 /**
2  * @description: 根据id修改指定的年级信息
3  * @param: grade
4  * @return: java.util.Map<java.lang.String, java.lang.Object>
5  */
6 @PostMapping("/editGrade")
7 @ResponseBody
```



```

8 public Map<String, Object> editGrade(Grade grade) {
9     //需排除用户只修改年级名以外的信息
10    Grade g = gradeService.findByName(grade.getName());
11    if (g != null) {
12        if (!(grade.getId().equals(g.getId()))) {
13            result.put("success", false);
14            result.put("msg", "该年级名称已存在！请修改后重试!");
15            return result;
16        }
17    }
18    //添加操作
19    if (gradeService.update(grade) > 0) {
20        result.put("success", true);
21    } else {
22        result.put("success", false);
23        result.put("msg", "添加失败！(ಥ_ಥ)服务器端发生异常!");
24    }
25    return result;
26 }

```

## GradeService

```

1 // TODO: 根据id修改指定年级信息
2 int update(Grade grade);

```

## GradeServiceImpl

```

1 @Override
2 public int update(Grade grade) {
3     return gradeMapper.update(grade);
4 }

```

## GradeMapper

```

1
2 // TODO: 根据id修改指定年级信息
3 int update(Grade grade);

```

## GradeMapper.xml

```

1 <!-- 根据id更新指定年级信息 -->
2 <update id="update" parameterType="grade">
3     UPDATE ssm_sms.tb_grade
4     SET name=#{name},

```

```
5  manager=#{manager},
6  email=#{email},
7  telephone=#{telephone},
8  introduction=#{introduction}
9  WHERE id = #{id}
10 </update>
```

## 删除年级信息查看grade.jsp

```
1 $.ajax({
2   type: "post",
3   url: "deleteGrade?t" + new Date().getTime(),
4   data: {ids: ids},
5   dataType: 'json',
```

## GradeController

```
1 /**
2  * @description: 根据id删除指定的年级信息
3  * @param: ids 拼接后的id
4  * @return: java.util.Map<java.lang.String, java.lang.Object>
5  */
6 @PostMapping("/deleteGrade")
7 @ResponseBody
8 public Map<String, Object> deleteGrade(@RequestParam(value = "ids[]", required = true) Integer[] ids) {
9
10     if (gradeService.deleteById(ids) > 0) {
11         result.put("success", true);
12     } else {
13         result.put("success", false);
14     }
15     return result;
16 }
```

## GradeService

```
1 // TODO: 根据id删除指定年级信息
2 int deleteById(Integer[] ids);
```

## GradeServiceImpl

```

1  @Override
2  public int deleteById(Integer[] ids) {
3      return gradeMapper.deleteById(ids);
4  }
5

```

## GradeMapper

```

1  // TODO: 根据id删除指定年级信息
2  int deleteById(Integer[] ids);

```

## GradeMapper.xml

```

1  <!-- 根据id批量删除指定的年级信息 -->
2  <delete id="deleteById">
3      DELETE FROM ssm_sms.tb_grade WHERE id IN
4      <foreach collection="array" item="ids" open="(" separator="," close=")">
5          #{ids}
6      </foreach>
7  </delete>

```

## 班级管理查看main.jsp

```

1  "menus": [
2      {
3          "menuid": "23",
4          "menuname": "班级列表",
5          "icon": "icon-class",
6          "url": "../clazz/goClazzListView"
7      }

```

## ClazzController

```

1  @Controller
2  @RequestMapping("/clazz")
3  public class ClazzController {
4
5      //注入业务对象
6      @Autowired

```

```

7  privateClazzService clazzService;
8  @Autowired
9  privateGradeService gradeService;
10
11  //存储预返回页面的数据对象
12  privateMap<String, Object> result = newHashMap<>();
13
14
15  /**
16   * @description: 跳转到班级管理页面
17   * @param: modelAndView
18   * @return: org.springframework.web.servlet.ModelAndView
19   */
20  @GetMapping("/goClazzListView")
21  publicModelAndView goClazzListPage(ModelAndView modelAndView) {
22      //向页面发送一个存储着Grade的List对象
23      modelAndView.addObject("gradeList", gradeService.selectAll());
24      modelAndView.setViewName("clazz/clazzList");
25      return modelAndView;
26  }

```

## GradeService

```

1  // TODO: 查询所有年级列表信息(用于在班级管理页面中获取年级信息)
2  List<Grade> selectAll();

```

## GradeServiceImpl

```

1  @Override
2  publicList<Grade> selectAll() {
3      return gradeMapper.selectAll();
4  }

```

## GradeMapper

```

1  // TODO: 查询所有年级信息列表(用于在班级管理页面中获取年级信息)
2  List<Grade> selectAll();

```

## gradeMapper.xml

```

1  <!-- 查询所有年级列表信息(用于在班级管理页面中获取年级信息) -->

```

```

2 <select id="selectAll" resultType="com.cc.sms.bean.Grade">
3     SELECT id, name, manager, email, telephone, introduction
4     FROM ssm_sms.tb_grade
5 </select>

```

## 查看clazzList.jsp

```

1 //初始化datagrid
2 $('#dataList').datagrid({
3     iconCls: 'icon-more',//图标
4     border: true,
5     collapsible: false,//是否可折叠
6     fit: true,//自动大小
7     method: "post",
8     url: "getClazzList?t" + new Date().getTime(),

```

## ClazzController

```

1 /**
2  * @description: 分页查询班级信息列表:根据班级与年级名查询指定/全部班级信息列表
3  * @param: page 当前页码
4  * @param: rows 列表行数
5  * @param: gradename 年级名称
6  * @param: clazzname 班级名称
7  * @return: java.util.Map<java.lang.String, java.lang.Object>
8  */
9 @PostMapping("/getClazzList")
10 @ResponseBody
11 public Map<String, Object> getClazzList(Integer page, Integer rows, String clazzname, String gradename) {
12
13     //存储查询的clazzname,gradename信息
14     Clazz clazz = new Clazz(clazzname, gradename);
15     //设置每页的记录数
16     PageHelper.startPage(page, rows);
17     //根据班级与年级名获取指定或全部班级信息列表
18     List<Clazz> list = clazzService.selectList(clazz);
19     //封装列表信息

```

```

20 PageInfo<Clazz> pageInfo = new PageInfo<>(list);
21 //获取总记录数
22 long total = pageInfo.getTotal();
23 //获取当前页数据列表
24 List<Clazz> clazzList = pageInfo.getList();
25 //存储数据对象
26 result.put("total", total);
27 result.put("rows", clazzList);
28
29 return result;
30 }
31

```

## ClazzService

```

1 public interface ClazzService {
2
3     // TODO: 根据年级与班级名查询指定/全部班级信息列表
4     List<Clazz> selectList(Clazz clazz);
5
6 }
7

```

## ClazzServiceImpl

```

1 @Service
2 @Transactional
3 public class ClazzServiceImpl implements ClazzService {
4
5     //注入Mapper接口对象
6     @Autowired
7     private ClazzMapper clazzMapper;
8
9     @Override
10    public List<Clazz> selectList(Clazz clazz) { return clazzMapper.selectL
11        ist(clazz); }
12
13 }
14

```

## ClazzMapper

```

1 public interface ClazzMapper {
2
3     根据班级名称获取指定/全部班级信息列表
4     List<Clazz> selectList(Clazz clazz);
5
6 }
7

```

## ClazzMapper.xml

```

1  <?xml version="1.0" encoding="UTF-8" ?>
2  <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >
3  <mapper namespace="com.cc.sms.dao.ClazzMapper">
4
5  <!-- 根据年级与班级名查询指定/全部班级信息列表 -->
6  <select id="selectList" parameterType="clazz" resultType="com.cc.sms.bean.Clazz">
7  SELECT id, name, number, introduction, coordinator, email, telephone, grade_name FROM tb_clazz
8
9  <where>
10 <if test="grade_name!=null and grade_name!=''">
11 AND grade_name = #{grade_name}
12 </if>
13 <if test="name!=null and name!=''">
14 AND name LIKE concat(concat('%',#{name}),'%')
15 </if>
16 </where>
17 </select>
18

```

班级信息添加 [查看clazzLt.jsp](#)

```

1  var data = $("#addForm").serialize();//序列化表单信息
2  $.ajax({
3    type: "post",
4    url: "addClazz?t" + new Date().getTime(),
5    data: data,

```

## ClazzController

```

1  /**
2   * @description: 添加班级信息
3   * @param: clazz
4   * @return: java.util.Map<java.lang.String, java.lang.Object>
5   */
6  @PostMapping("/addClazz")
7  @ResponseBody

```

```

8 public Map<String, Object> addClazz(Clazz clazz) {
9     //判断班级名是否已存在
10    Clazz name = clazzService.findByName(clazz.getName());
11    if (name == null) {
12        if (clazzService.insert(clazz) > 0) {
13            result.put("success", true);
14        } else {
15            result.put("success", false);
16            result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");
17        }
18    } else {
19        result.put("success", false);
20        result.put("msg", "该班级名称已存在! 请修改后重试!");
21    }
22
23    return result;
24 }

```

## ClazzService

```

1 // TODO: 添加班级信息
2 int insert(Clazz clazz);
3 // TODO: 根据班级名获取指定班级信息
4 Clazz findByName(String name);

```

## ClazzServiceImpl

```

1 @Override
2 public Clazz findByName(String name) {
3     return clazzMapper.findByName(name);
4 }
5
6 @Override
7 public int insert(Clazz clazz) {
8     return clazzMapper.insert(clazz);
9 }

```

## ClazzMapper

```

1 // TODO: 获取指定名称的班级信息
2 Clazz findByName(String name);

```



```
3
4 // TODO: 添加班级信息
5 int insert(Clazz clazz);
```

## ClazzMapper.xml

```
1 <!-- 查询指定名称的班级信息 -->
2 <select id="findByName" parameterType="String" resultType="com.cc.sms.
  bean.Clazz">
3     SELECT id,
4     name,
5     number,
6     introduction,
7     coordinator,
8     email,
9     telephone,
10    grade_name
11    FROM tb_clazz
12    WHERE name = #{name}
13 </select>
14
15 <!-- 添加班级信息 -->
16 <insert id="insert" parameterType="Clazz">
17     INSERT INTO tb_clazz(name, number, introduction, coordinator, email, t
  elephone, grade_name)
18     VALUES (#{name}, #{number}, #{introduction}, #{coordinator}, #{email},
  #{telephone}, #{grade_name})
19 </insert>
```

## 编辑班级信息查看clazzList.jsp

```
1 $.ajax({
2     type: "post",
3     url: "editClazz?t=" + new Date().getTime(),
4     data: data,
5     dataType: 'json',
```

## ClazzController

```
1 /**
2  * @description: 根据id修改指定的班级信息
3  * @param: clazz
```

```

4  * @return: java.util.Map<java.lang.String, java.lang.Object>
5  */
6  @PostMapping("/editClazz")
7  @ResponseBody
8  public Map<String, Object> editClazz(Clazz clazz) {
9      //需排除用户只修改班级名以外的信息
10     Clazz c = clazzService.findByName(clazz.getName());
11     if (c != null) {
12         if (!(clazz.getId().equals(c.getId()))) {
13             result.put("success", false);
14             result.put("msg", "该班级名称已存在! 请修改后重试!");
15             return result;
16         }
17     }
18     //添加操作
19     if (clazzService.update(clazz) > 0) {
20         result.put("success", true);
21     } else {
22         result.put("success", false);
23         result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");
24     }
25     return result;
26 }

```

## ClazzService

```

1  // TODO: 根据id修改指定班级信息
2  int update(Clazz clazz);

```

## ClazzServiceImpl

```

1  @Override
2  public int update(Clazz clazz) {
3      return clazzMapper.update(clazz);
4  }

```

## ClazzMapper

```

1  // TODO: 根据id修改指定班级信息
2  int update(Clazz clazz);

```

## ClazzMapper.xml

```
1 <!-- 指定id修改指定班级信息 -->
2 <update id="update" parameterType="clazz">
3     UPDATE tb_clazz
4     SET name=#{name},
5     number=#{number},
6     introduction=#{introduction},
7     coordinator=#{coordinator},
8     email=#{email},
9     telephone=#{telephone},
10    grade_name=#{grade_name}
11    WHERE id = #{id}
12 </update>
```

## 班级信息删除查看clazzList.jsp

```
1 $.ajax({
2     type: "post",
3     url: "deleteClazz?t" + new Date().getTime(),
4     data: {ids: ids},
5     dataType: 'json',
```

## ClazzController

```
1 /**
2  * @description: 删除指定id的班级信息
3  * @param: ids 拼接后的id
4  * @return: java.util.Map<java.lang.String, java.lang.Object>
5  */
6 @PostMapping("/deleteClazz")
7 @ResponseBody
8 public Map<String, Object> deleteGrade(@RequestParam(value = "ids[]", required = true) Integer[] ids) {
9
10     if (clazzService.deleteById(ids) > 0) {
11         result.put("success", true);
12     } else {
13         result.put("success", false);
14     }
```

```
15     return result;
16 }
```

## ClazzService

```
1 // TODO: 根据id删除指定班级信息
2 int deleteById(Integer[] ids);
```

## ClazzServiceImpl

```
1 @Override
2 public int deleteById(Integer[] ids) {
3     return clazzMapper.deleteById(ids);
4 }
5
```

## ClazzMapper

```
1 // TODO: 根据id删除指定班级信息
2 int deleteById(Integer[] ids);
```

## ClazzMapper.xml

```
1 <!-- 根据id批量删除指定的班级信息 -->
2 <delete id="deleteById">
3     DELETE FROM tb_clazz WHERE id IN
4     <foreach collection="array" item="ids" open="(" separator="," close=")">
5         #{ids}
6     </foreach>
7 </delete>
```

## 教师信息管理 [查看main.jsp](#)

```
1 "menus": [
2     {
3         "menuid": "22",
4         "menuname": "教师列表",
5         "icon": "icon-teacher",
6         "url": "../teacher/goTeacherListView"
7     }
```

# TeacherController

```
1 @Controller
2 @RequestMapping("/teacher")
3 public class TeacherController {
4
5     //注入业务对象
6     @Autowired
7     private ClazzService clazzService;
8     @Autowired
9     private TeacherService teacherService;
10
11     //存储预返回页面的数据对象
12     private Map<String, Object> result = new HashMap<>();
13
14     /**
15      * @description: 跳转到教师信息管理页面
16      * @param: modelAndView
17
18      * @return: org.springframework.web.servlet.ModelAndView
19      */
20     @GetMapping("/goTeacherListView")
21     public ModelAndView goTeacherListView(ModelAndView modelAndView) {
22         //向页面发送一个存储着Clazz的List对象
23         modelAndView.addObject("clazzList", clazzService.selectAll());
24         modelAndView.setViewName("teacher/teacherList");
25         return modelAndView;
26     }
```

## ClazzService

```
1 // TODO: 查询所有班级信息列表(用于在学生管理页面中获取班级信息)
2 List<Clazz> selectAll();
```

## ClazzServiceImpl

```
1 @Override
2 public List<Clazz> selectAll() {
3     return clazzMapper.selectAll();
4 }
```

## ClazzMapper

```
1 // TODO: 查询所有班级列表信息(用于在学生管理页面中获取班级信息)
2 List<Clazz> selectAll();
```

## ClazzMapper.xml

```
1 <!-- 查询所有班级列表信息(用于在学生管理页面中获取班级信息) -->
2 <select id="selectAll" resultType="com.cc.sms.bean.Clazz">
3     SELECT id,
4     name,
5     number,
6     introduction,
7     coordinator,
8     email,
9     telephone,
10    grade_name
11    FROM ssm_sms.tb_clazz
12 </select>
```

## 查看教师信息列表,查看teacherList.jsp

```
1 $('#dataList').datagrid({
2     iconCls: 'icon-more',//图标
3     border: true,
4     collapsible: false,//是否可折叠
5     fit: true,//自动大小
6     method: "post",
7     url: "getTeacherList?t" + new Date().getTime(),
```

## TeacherController

```
1 @Controller
2 @RequestMapping("/teacher")
3 public class TeacherController {
4
5     //注入业务对象
6     @Autowired
7     private ClazzService clazzService;
```

```

8  @Autowired
9  private TeacherService teacherService;
10
11  //存储预返回页面的数据对象
12  private Map<String, Object> result = new HashMap<>();
13
14  /**
15   * @description: 跳转到教师信息管理页面
16   * @param: modelAndView
17
18   * @return: org.springframework.web.servlet.ModelAndView
19   */
20  @GetMapping("/goTeacherListView")
21  public ModelAndView goTeacherListView(ModelAndView modelAndView) {
22  //向页面发送一个存储着Clazz的List对象
23  modelAndView.addObject("clazzList", clazzService.selectAll());
24  modelAndView.setViewName("teacher/teacherList");
25  return modelAndView;
26  }

```

## ClazzService

```

1  // TODO: 查询所有班级信息列表(用于在学生管理页面中获取班级信息)
2  List<Clazz> selectAll();

```

## ClazzServiceImpl

```

1  @Override
2  public List<Clazz> selectAll() {
3  return clazzMapper.selectAll();
4  }

```

## ClazzMapper

```

1  // TODO: 查询所有班级列表信息(用于在学生管理页面中获取班级信息)
2  List<Clazz> selectAll();

```

## ClazzMapper.xml

```

1  <!-- 查询所有班级列表信息(用于在学生管理页面中获取班级信息) -->
2  <select id="selectAll" resultType="pers.lige.sms.bean.Clazz">

```

```

3  SELECT id,
4  name,
5  number,
6  introduction,
7  coordinator,
8  email,
9  telephone,
10 grade_name
11 FROM ssm_sms.tb_clazz
12 </select>

```

## 查看teacheList.jsp

```

1 $('#dataList').datagrid({
2  iconCls: 'icon-more',//图标
3  border: true,
4  collapsible: false,//是否可折叠
5  fit: true,//自动大小
6  method: "post",
7  url: "getTeacherList?t" + new Date().getTime(),

```

## TeacherController

```

1 /**
2  * @description: 分页查询学生信息列表:根据教师与班级名查询指定/全部教师信息列表
3  * @param: page 当前页码
4  * @param: rows 列表行数
5  * @param: teachername
6  * @param: clazzname
7  * @return: java.util.Map<java.lang.String, java.lang.Object>
8  */
9 @PostMapping("/getTeacherList")
10 @ResponseBody
11 public Map<String, Object> getTeacherList(Integer page, Integer rows, String teachername, String clazzname) {
12
13     //存储查询的teachername,clazzname信息
14     Teacher teacher = new Teacher(teachername, clazzname);
15     //设置每页的记录数
16     PageHelper.startPage(page, rows);

```



```

17 //根据班级与教师名获取指定或全部教师信息列表
18 List<Teacher> list = teacherService.selectList(teacher);
19 //封装列表信息
20 PageInfo<Teacher> pageInfo = new PageInfo<>(list);
21 //获取总记录数
22 long total = pageInfo.getTotal();
23 //获取当前页数据列表
24 List<Teacher> teacherList = pageInfo.getList();
25 //存储数据对象
26 result.put("total", total);
27 result.put("rows", teacherList);
28
29 return result;
30 }

```

## TeacherService

```

1 // TODO: 根据教师与班级名查询指定/全部教师列表信息
2 List<Teacher> selectList(Teacher teacher);

```

## TeacherServiceImpl

```

1 @Override
2 public List<Teacher> selectList(Teacher teacher) {
3     return teacherMapper.selectList(teacher);
4 }

```

## TeacherMapper

```

1 // TODO: 根据教师与班级名查询指定/全部教师信息列表
2 List<Teacher> selectList(Teacher teacher);

```

## TeacherMapper.xml

```

1 <!-- 根据教师与班级名查询指定/全部教师信息列表 -->
2 <select id="selectList" parameterType="teacher" resultType="com.cc.sm
s.bean.Teacher">
3     SELECT id, tno, name, gender, password, email, telephone, address, portr
ait_path, clazz_name
4     FROM tb_teacher
5     <where>

```

```

6  <if test="clazz_name!=null and clazz_name!=''">
7  AND clazz_name = #{clazz_name}
8  </if>
9  <if test="name!=null and name!=''">
10  AND name LIKE concat(concat('%',#{name}),'%')
11  </if>
12  </where>
13 </select>

```

## 教师信息添加查看teacherList.jsp

```

1  $.ajax({
2    type: "post",
3    url: "addTeacher?t" + new Date().getTime(),
4    data: data,
5    dataType: 'json',
6    success: function (data) {

```

## TeacherController

```

1  /**
2   * @description: 添加教师信息
3   * @param: teacher
4
5   * @return: java.util.Map<java.lang.String, java.lang.Object>
6   */
7  @PostMapping("/addTeacher")
8  @ResponseBody
9  public Map<String, Object> addStudent(Teacher teacher) {
10    //判断工号是否已存在
11    if (teacherService.findByTno(teacher) != null) {
12      result.put("success", false);
13      result.put("msg", "工号已存在! 请修改后重试!");
14      return result;
15    }
16    if (teacherService.insert(teacher) > 0) {
17      result.put("success", true);
18    } else {
19      result.put("success", false);
20      result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");

```

```
21 }
22 return result;
23 }
```

## TeacherService

```
1 // 验证登录信息是否正确
2 Teacher login(LoginForm loginForm);
3
4 // TODO: 根据教师与班级名查询指定/全部教师列表信息
5 List<Teacher> selectList(Teacher teacher);
```

## TeacherServiceImpl

```
1 @Override
2 public Teacher findByTno(Teacher teacher) {
3     return teacherMapper.findByTno(teacher);
4 }
5
6 @Override
7 public int insert(Teacher teacher) {
8     return teacherMapper.insert(teacher);
9 }
```

## TeacherMapper

```
1 // TODO: 根据工号查询指定教师信息
2 Teacher findByTno(Teacher teacher);
3
4 // TODO: 添加教师信息
5 int insert(Teacher teacher);
```

## TeacherMapper.xml

```
1 <!-- 根据工号查询指定教师信息 -->
2 <select id="findByTno" resultType="teacher" parameterType="com.cc.sms.
  bean.Teacher">
3     SELECT id,
4     tno,
5     name,
6     gender,
7     password,
```

```

8  email,
9  telephone,
10 address,
11 portrait_path,
12 clazz_name
13 FROM tb_teacher
14 WHERE tno = #{tno}
15 </select>
16
17 <!-- 添加教师信息 -->
18 <insert id="insert" parameterType="teacher">
19     INSERT INTO tb_teacher(tno, name, gender, password, email, telephone, a
ddress, portrait_path, clazz_name)
20     VALUES (#{tno}, #{name}, #{gender}, #{password}, #{email}, #
#{telephone}, #{address}, #{portrait_path},
21     #{clazz_name})
22 </insert>

```

## 上传头像

```

1  /**
2   * @description: 上传头像-原理:将头像上传到项目发布目录中,通过读取数据库中的头
像路径来获取头像
3   * @param: photo
4   * @param: request
5   * @return: java.util.Map<java.lang.String, java.lang.Object>
6   */
7  @PostMapping("/uploadPhoto")
8  @ResponseBody
9  public Map<String, Object> uploadPhoto(MultipartFile photo, HttpServletRe
quest request) {
10     //存储头像的本地目录
11     final String dirPath = request.getServletContext().getRealPath("/uploa
d/teacher_portrait/");
12     //存储头像的项目发布目录
13     final String portraitPath =
request.getServletContext().getContextPath() + "/upload/teacher_portrait/";
14     //返回头像的上传结果
15     return UploadFile.getUploadResult(photo, dirPath, portraitPath);
16 }

```

# 教师信息编辑查看teacherList.jsp

```
1 $.ajax({
2   type: "post",
3   url: "editTeacher?t=" + new Date().getTime(),
4   data: data,
5   dataType: 'json',
```

## TeacherController

```
1 @PostMapping("/editTeacher")
2 @ResponseBody
3 public Map<String, Object> editTeacher(Teacher teacher) {
4   if (teacherService.update(teacher) > 0) {
5     result.put("success", true);
6   } else {
7     result.put("success", false);
8     result.put("msg", "修改失败! (ಥ_ಥ)服务器端发生异常!");
9   }
10  return result;
11 }
```

## TeacherService

```
1 // TODO: 根据id修改指定教师信息
2 int update(Teacher teacher);
```

## TeacherServiceImpl

```
1 @Override
2 public int update(Teacher teacher) {
3   return teacherMapper.update(teacher);
4 }
```

## TeacherMapper

```
1 // TODO: 根据id修改指定教师信息
2 int update(Teacher teacher);
```

# TeacherMapper.xml

```
1  <!-- 根据id修改指定教师信息 -->
2  <update id="update" parameterType="teacher">
3      UPDATE tb_teacher
4      <set>
5          <if test="name!=null and name!=''">name=#{name},</if>
6          <if test="gender!=null and gender!=''">gender=#{gender},</if>
7          <if test="password!=null and password!=''">password=#{password},</if>
8          <if test="email!=null and email!=''">email=#{email},</if>
9          <if test="telephone!=null and telephone!=''">telephone=#{telephone},
10         </if>
11         <if test="address!=null and address!=''">address=#{address},</if>
12         <if test="portrait_path!=null and portrait_path!=''">portrait_path=#{po
13         rtrait_path},</if>
14         <if test="clazz_name!=null and clazz_name!=''">clazz_name=#{
15         {clazz_name},</if>
16     </set>
17     WHERE id = #{id}
18 </update>
```

# 删除教师信息查看teacherList.jsp

```
1  $.ajax({
2      type: "post",
3      url: "deleteTeacher?t" + new Date().getTime(),
4      data: {ids: ids},
5      dataType: 'json',
```

# TeacherController

```
1  @PostMapping("/deleteTeacher")
2  @ResponseBody
3  public Map<String, Object> deleteTeacher(@RequestParam(value = "ids[]", r
4  equired = true) Integer[] ids) {
5
6      if (teacherService.deleteById(ids) > 0) {
7          result.put("success", true);
8      } else {
9          result.put("success", false);
```

```
9    result.put("msg", "删除失败! (ಥ_ಥ)服务器端发生异常!");
10 }
11 return result;
12 }
```

## TeacherService

```
1 // TODO: 根据id删除指定教师信息
2 int deleteById(Integer[] ids);
```

## TeacherServiceImpl

```
1 @Override
2 public int deleteById(Integer[] ids) {
3     return teacherMapper.deleteById(ids);
4 }
5
```

## TeacherMapper

```
1 // TODO: 根据id删除指定教师信息
2 int deleteById(Integer[] ids);
```

## TeacherMapper.xml

```
1 <!-- 根据id批量删除指定教师信息 -->
2 <delete id="deleteById">
3     DELETE FROM tb_teacher WHERE id IN
4     <foreach collection="array" item="ids" open="(" separator="," close=")">
5         #{ids}
6     </foreach>
7 </delete>
```

## 学生信息管理查看main.jsp

```
1 "menuid": "21",
2 "menuname": "学生列表",
3 "icon": "icon-student",
4 "url": "../student/goStudentListView"
```

# StudentController

```
1 @Controller
2 @RequestMapping("/student")
3 public class StudentController {
4
5     // 注入业务对象
6     @Autowired
7     private ClazzService clazzService;
8     @Autowired
9     private StudentService studentService;
10
11     //存储预返回页面的数据对象
12     private Map<String, Object> result = new HashMap<>();
13
14     /**
15      * @description: 跳转到学生信息管理页面
16      * @param: modelAndView
17
18      * @return: org.springframework.web.servlet.ModelAndView
19      */
20     @GetMapping("/goStudentListView")
21     public ModelAndView goStudentListView(ModelAndView modelAndView) {
22         //向页面发送一个存储着Clazz的List对象
23         modelAndView.addObject("clazzList", clazzService.selectAll());
24         modelAndView.setViewName("student/studentList");
25         return modelAndView;
26     }
```

## 查看studentList.jsp 学生信息列表

```
1 $('#dataList').datagrid({
2     iconCls: 'icon-more',//图标
3     border: true,
4     collapsible: false,//是否可折叠
5     fit: true,//自动大小
6     method: "post",
7     url: "getStudentList?t" + new Date().getTime(),
8     idField: 'id',
```

# StudentController



```

1  /**
2   * @description: 分页查询学生信息列表:根据学生与班级名查询指定/全部学生信息列表
3   * @param: page
4   * @param: rows
5   * @param: studentname
6   * @param: clazzname
7
8   * @return: java.util.Map<java.lang.String, java.lang.Object>
9   */
10 @PostMapping("/getStudentList")
11 @ResponseBody
12 public Map<String, Object> getStudentList(Integer page, Integer rows, String studentname, String clazzname) {
13
14     //存储查询的studentname,clazzname信息
15     Student student = new Student(studentname, clazzname);
16     //设置每页的记录数
17     PageHelper.startPage(page, rows);
18     //根据班级与学生名获取指定或全部学生信息列表
19     List<Student> list = studentService.selectList(student);
20     //封装信息列表
21     PageInfo<Student> pageInfo = new PageInfo<>(list);
22     //获取总记录数
23     long total = pageInfo.getTotal();
24     //获取当前页数据列表
25     List<Student> studentList = pageInfo.getList();
26     //存储数据对象
27     result.put("total", total);
28     result.put("rows", studentList);
29
30     return result;
31 }

```

## StudentService

```

1  // TODO: 根据班级与学生名获取指定或全部学生信息列表
2  List<Student> selectList(Student student);

```

## StudentServiceImpl

```

1  @Override
2  public List<Student> selectList(Student student) {
3      return studentMapper.selectList(student);

```

```
4 }
```

## StudentMapper

```
1 // TODO: 根据班级与学生名获取指定或全部学生信息列表
2 List<Student> selectList(Student student);
```

## StudentMapper.xml

```
1 <!-- 根据班级与学生名获取指定/全部学生信息列表 -->
2 <select id="selectList" parameterType="student" resultType="com.cc.sms.bean.Student">
3     SELECT id, sno, name, gender, password, portrait_path, email, telephone,
4     address, introduction, clazz_name
5     FROM tb_student
6     <where>
7     <if test="clazz_name!=null and clazz_name!=''">
8     AND clazz_name = #{clazz_name}
9     </if>
10    <if test="name!=null and name!=''">
11    AND name LIKE concat(concat('%',#{name}),'%')
12    </if>
13    </where>
14 </select>
```

## 学生信息管理添加,查看studentList.jsp

```
1 $.ajax({
2     type: "post",
3     url: "addStudent?t" + new Date().getTime(),
4     data: data,
5     dataType: 'json',
```

## StudentController

```
1 @PostMapping("/addStudent")
2 @ResponseBody
3 public Map<String, Object> addStudent(Student student) {
4     //判断学号是否已存在
5     if (studentService.findBySno(student) != null) {
```

```

6  result.put("success", false);
7  result.put("msg", "该学号已经存在! 请修改后重试!");
8  return result;
9  }
10 //添加学生信息
11 if (studentService.insert(student) > 0) {
12  result.put("success", true);
13 } else {
14  result.put("success", false);
15  result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");
16 }
17
18 return result;
19 }

```

## StudentService

```

1  // TODO: 根据学号获取指定学生信息
2  Student findBySno(Student student);
3
4  // TODO: 添加班级信息
5  int insert(Student student);

```

## StudentServiceImpl

```

1
2  @Override
3  public Student findBySno(Student student) {
4  return studentMapper.findBySno(student);
5  }
6  @Override
7  public int insert(Student student) {
8  return studentMapper.insert(student);
9  }

```

## StudentMapper

```

1  // TODO: 根据学号查询指定学生信息
2  Student findBySno(Student student);
3

```

```
4 // TODO: 添加班级信息
5 int insert(Student student);
```

## StudentMapper.xml

```
1 <!-- 根据学号查询指定学生信息 -->
2 <select id="findBySno" resultType="student" parameterType="com.cc.sms.
  bean.Student">
3     SELECT id,
4     sno,
5     name,
6     gender,
7     password,
8     portrait_path,
9     email,
10    telephone,
11    address,
12    introduction,
13    clazz_name
14    FROM tb_student
15    WHERE sno = #{sno}
16 </select>
17
18 <!-- 添加学生信息 -->
19 <insert id="insert" parameterType="student">
20     INSERT INTO tb_student(sno, name, gender, password, portrait_path, email,
21     telephone, address, introduction,
22     clazz_name)
23     VALUES (#{sno}, #{name}, #{gender}, #{password}, #{portrait_path}, #{email},
24     #{telephone}, #{address},
25     #{introduction}, #{clazz_name})
26 </insert>
```

## 上传头像

```
1 /**
2  * @description: 上传头像-原理:将头像上传到项目发布目录中,通过读取数据库中的头像
  路径来获取头像
3  * @param: photo
4  * @param: request
5
6  * @return: java.util.Map<java.lang.String, java.lang.Object>
```

```

7  */
8  @PostMapping("/uploadPhoto")
9  @ResponseBody
10 public Map<String, Object> uploadPhoto(MultipartFile photo, HttpServletRequest request) {
11     //存储头像的本地目录
12     final String dirPath = request.getServletContext().getRealPath("/upload/student_portrait/");
13     //存储头像的项目发布目录
14     final String portraitPath = request.getServletContext().getContextPath() + "/upload/student_portrait/";
15     //返回头像的上传结果
16     return UploadFile.getUploadResult(photo, dirPath, portraitPath);
17 }

```

## 更新学生信息查看studentList.jsp

```

1  $.ajax({
2     type: "post",
3     url: "editStudent?t=" + new Date().getTime(),
4     data: data,
5     dataType: 'json',

```

## StudentController

```

1  @PostMapping("/editStudent")
2  @ResponseBody
3  public Map<String, Object> editStudent(Student student) {
4      if (studentService.update(student) > 0) {
5          result.put("success", true);
6      } else {
7          result.put("success", false);
8          result.put("msg", "添加失败! (ಥ_ಥ)服务器端发生异常!");
9      }
10     return result;
11 }

```

## StudentService

```

1  // TODO: 根据id修改指定学生信息
2  int update(Student student);

```

## StudentServiceImpl

```
1 @Override
2 public int update(Student student) {
3     return studentMapper.update(student);
4 }
```

## StudentMapper

```
1 // TODO: 根据id修改指定学生信息
2 int update(Student student);
```

## StudentMapper.xml

```
1 <!-- 根据id修改指定学生信息 -->
2 <update id="update" parameterType="student">
3     UPDATE tb_student
4     <set>
5         <if test="name!=null and name!=''">name=#{name},</if>
6         <if test="gender!=null and gender!=''">gender=#{gender},</if>
7         <if test="password!=null and password!=''">password=#{password},</if>
8         <if test="email!=null and email!=''">email=#{email},</if>
9         <if test="telephone!=null and telephone!=''">telephone=#{telephone},
10     </if>
11     <if test="address!=null and address!=''">address=#{address},</if>
12     <if test="introduction!=null and introduction!=''">introduction=#{in
13     trodution},</if>
14     <if test="portrait_path!=null and portrait_path!=''">portrait_path=#{po
15     rtrait_path},</if>
16     <if test="clazz_name!=null and clazz_name!=''">clazz_name=#
17     {clazz_name},</if>
18     </set>
19     WHERE id = #{id}
20 </update>
```

## 删除学生信息查看studentL.

```
1 if (r) {
2     $.ajax({
3         type: "post",
4         url: "deleteStudent?t" + new Date().getTime(),
```

```
5 data: {ids: ids},
6 dataType: 'json',
```

## StudentController

```
1 /**
2  * @description: 根据id删除指定的学生信息
3  * @param: ids
4
5  * @return: java.util.Map<java.lang.String, java.lang.Object>
6  */
7 @PostMapping("/deleteStudent")
8 @ResponseBody
9 public Map<String, Object> deleteStudent(@RequestParam(value = "ids[]", required = true) Integer[] ids) {
10
11     if (studentService.deleteById(ids) > 0) {
12         result.put("success", true);
13     } else {
14         result.put("success", false);
15     }
16     return result;
17 }
```

## StudentService

```
1 // TODO: 根据id删除指定学生信息
2 int deleteById(Integer[] ids);
```

## StudentServiceImpl

```
1 @Override
2 public int deleteById(Integer[] ids) {
3     return studentMapper.deleteById(ids);
4 }
5
```

## StudentMapper

```
1 // TODO: 根据id删除指定学生信息
2 int deleteById(Integer[] ids);
```

## StudentMapper.xml

```
1 <!-- 根据id批量删除指定学生信息 -->
2 <delete id="deleteById">
3     DELETE FROM tb_student WHERE id IN
4     <foreach collection="array" item="ids" open="(" separator="," close=")">
5         #{ids}
6     </foreach>
7 </delete>
```

完结