SSM整合+视频网站开发

# 课程目标

使用SpringMVC+Mybatis+Spring+Maven进行分模块整合 简单实现视频网站开发

# 项目演示

**视频网站构建模式**

分为:自建模式和第三方模式

自建模式:需要自己搭建服务器、解决CDN加速问题、提高SDK、防盗链等问题

第三方模式:使用第三方云视频接口、阿里云、保利云(8毛)、乐视云(4毛G)。

讲述一下 蚂蚁课堂网站视频架构

**蚂蚁课堂**是使用乐视云进行管理视频的,可以进行操作黑名单和白名单,后续准备更换,乐视云不支持app移动端.

CDN加速:CDN就是内容分发,大型网站高并发的解决方案,内容分发就是将多台服务器部署到不同的地区,从近开始访问.可以直接买阿里云的.

场景:湖北用户和上海用户去访问上海的一台服务器,肯定是上海用户访问的更快.

优缺点:

1. 自建模式太占用带宽了,传统的服务器不能去建视频服务器,自建模式费用非常的高.拉专线宽带为了提高SDK速度
2. 第三方接口,有成熟的视频解决方案(CDN,防盗链,缓存),也提供移动app的接口.

# 二、使用技术

后端:SpringMVC、Spring、Mybatis

前端:jquery

|  |  |
| --- | --- |
| itmayiedu-parent | ---父类工程 |
| itmayiedu-commons | ---工具类 |
| itmayiedu-entity | ---实体类 |
| itmayiedu-dao | ---数据库访问层 |
| itmayiedu-service | ---服务层 |
| itmayiedu-web | ---web层 |

# 三、项目整合

## 3.1 itmayiedu-parent父工程添加依赖

|  |
| --- |
| **<!-- 集中定义依赖版本号 -->**  **<properties>**  **<junit.version>4.12</junit.version>**  **<spring.version>4.1.3.RELEASE</spring.version>**  **<mybatis.version>3.2.8</mybatis.version>**  **<mybatis.spring.version>1.2.2</mybatis.spring.version>**  **<mybatis.paginator.version>1.2.15</mybatis.paginator.version>**  **<mysql.version>5.1.32</mysql.version>**  **<slf4j.version>1.6.4</slf4j.version>**  **<jackson.version>2.4.2</jackson.version>**  **<druid.version>1.0.9</druid.version>**  **<httpclient.version>4.3.5</httpclient.version>**  **<jstl.version>1.2</jstl.version>**  **<servlet-api.version>2.5</servlet-api.version>**  **<jsp-api.version>2.0</jsp-api.version>**  **<joda-time.version>2.5</joda-time.version>**  **<commons-lang3.version>3.3.2</commons-lang3.version>**  **<commons-io.version>1.3.2</commons-io.version>**  **<commons-net.version>3.3</commons-net.version>**  **<pagehelper.version>5.0.0</pagehelper.version>**  **<jsqlparser.version>0.9.1</jsqlparser.version>**  **<commons-fileupload.version>1.3.1</commons-fileupload.version>**  **<jedis.version>2.7.2</jedis.version>**  **<solrj.version>4.10.3</solrj.version>**  **</properties>**  **<dependencyManagement>**  **<dependencies>**  **<!-- 时间操作组件 -->**  **<dependency>**  **<groupId>joda-time</groupId>**  **<artifactId>joda-time</artifactId>**  **<version>${joda-time.version}</version>**  **</dependency>**  **<!-- Apache工具组件 -->**  **<dependency>**  **<groupId>org.apache.commons</groupId>**  **<artifactId>commons-lang3</artifactId>**  **<version>${commons-lang3.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>org.apache.commons</groupId>**  **<artifactId>commons-io</artifactId>**  **<version>${commons-io.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>commons-net</groupId>**  **<artifactId>commons-net</artifactId>**  **<version>${commons-net.version}</version>**  **</dependency>**  **<!-- Jackson Json处理工具包 -->**  **<dependency>**  **<groupId>com.fasterxml.jackson.core</groupId>**  **<artifactId>jackson-databind</artifactId>**  **<version>${jackson.version}</version>**  **</dependency>**  **<!-- httpclient -->**  **<dependency>**  **<groupId>org.apache.httpcomponents</groupId>**  **<artifactId>httpclient</artifactId>**  **<version>${httpclient.version}</version>**  **</dependency>**  **<!-- 单元测试 -->**  **<dependency>**  **<groupId>junit</groupId>**  **<artifactId>junit</artifactId>**  **<version>${junit.version}</version>**  **<scope>test</scope>**  **</dependency>**  **<!-- 日志处理 -->**  **<dependency>**  **<groupId>org.slf4j</groupId>**  **<artifactId>slf4j-log4j12</artifactId>**  **<version>${slf4j.version}</version>**  **</dependency>**  **<!-- Mybatis -->**  **<dependency>**  **<groupId>org.mybatis</groupId>**  **<artifactId>mybatis</artifactId>**  **<version>${mybatis.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>org.mybatis</groupId>**  **<artifactId>mybatis-spring</artifactId>**  **<version>${mybatis.spring.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>com.github.miemiedev</groupId>**  **<artifactId>mybatis-paginator</artifactId>**  **<version>${mybatis.paginator.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>com.github.pagehelper</groupId>**  **<artifactId>pagehelper</artifactId>**  **<version>${pagehelper.version}</version>**  **</dependency>**  **<!-- MySql -->**  **<dependency>**  **<groupId>mysql</groupId>**  **<artifactId>mysql-connector-java</artifactId>**  **<version>${mysql.version}</version>**  **</dependency>**  **<!-- 连接池 -->**  **<dependency>**  **<groupId>com.alibaba</groupId>**  **<artifactId>druid</artifactId>**  **<version>${druid.version}</version>**  **</dependency>**  **<!-- Spring -->**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-context</artifactId>**  **<version>${spring.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-beans</artifactId>**  **<version>${spring.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-webmvc</artifactId>**  **<version>${spring.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-jdbc</artifactId>**  **<version>${spring.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-aspects</artifactId>**  **<version>${spring.version}</version>**  **</dependency>**  **<!-- JSP相关 -->**  **<dependency>**  **<groupId>jstl</groupId>**  **<artifactId>jstl</artifactId>**  **<version>${jstl.version}</version>**  **</dependency>**  **<dependency>**  **<groupId>javax.servlet</groupId>**  **<artifactId>servlet-api</artifactId>**  **<version>${servlet-api.version}</version>**  **<scope>provided</scope>**  **</dependency>**  **<dependency>**  **<groupId>javax.servlet</groupId>**  **<artifactId>jsp-api</artifactId>**  **<version>${jsp-api.version}</version>**  **<scope>provided</scope>**  **</dependency>**  **<!-- 文件上传组件 -->**  **<dependency>**  **<groupId>commons-fileupload</groupId>**  **<artifactId>commons-fileupload</artifactId>**  **<version>${commons-fileupload.version}</version>**  **</dependency>**  **<!-- Redis客户端 -->**  **<dependency>**  **<groupId>redis.clients</groupId>**  **<artifactId>jedis</artifactId>**  **<version>${jedis.version}</version>**  **</dependency>**  **</dependencies>**  **</dependencyManagement>**  **<build>**  **<finalName>${project.artifactId}</finalName>**  **<plugins>**  **<!-- 资源文件拷贝插件 -->**  **<plugin>**  **<groupId>org.apache.maven.plugins</groupId>**  **<artifactId>maven-resources-plugin</artifactId>**  **<version>2.7</version>**  **<configuration>**  **<encoding>UTF-8</encoding>**  **</configuration>**  **</plugin>**  **<!-- java编译插件 -->**  **<plugin>**  **<groupId>org.apache.maven.plugins</groupId>**  **<artifactId>maven-compiler-plugin</artifactId>**  **<version>3.2</version>**  **<configuration>**  **<source>1.8</source>**  **<target>1.8</target>**  **<encoding>UTF-8</encoding>**  **</configuration>**  **</plugin>**  **</plugins>**  **<pluginManagement>**  **<plugins>**  **<!-- 配置Tomcat插件 -->**  **<plugin>**  **<groupId>org.apache.tomcat.maven</groupId>**  **<artifactId>tomcat7-maven-plugin</artifactId>**  **<version>2.2</version>**  **</plugin>**  **</plugins>**  **</pluginManagement>**  **</build>** |

## 3.2 Spring整合SpringMVC

### 3.2.1 引入SpringMVC-Maven依赖

|  |
| --- |
| **<dependencies>**  **<!-- JSP相关 -->**  **<dependency>**  **<groupId>jstl</groupId>**  **<artifactId>jstl</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>javax.servlet</groupId>**  **<artifactId>servlet-api</artifactId>**  **<scope>provided</scope>**  **</dependency>**  **<dependency>**  **<groupId>javax.servlet</groupId>**  **<artifactId>jsp-api</artifactId>**  **<scope>provided</scope>**  **</dependency>**  **<!-- 文件上传组件 -->**  **<dependency>**  **<groupId>commons-fileupload</groupId>**  **<artifactId>commons-fileupload</artifactId>**  **</dependency>**  **<!-- springwebmvc -->**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-webmvc</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>com.itmayiedu</groupId>**  **<artifactId>itmayiedu-entity</artifactId>**  **<version>0.0.1-SNAPSHOT</version>**  **</dependency>**  **<dependency>**  **<groupId>com.fasterxml.jackson.core</groupId>**  **<artifactId>jackson-annotations</artifactId>**  **<version>2.5.0</version>**  **</dependency>**  **<dependency>**  **<groupId>com.fasterxml.jackson.core</groupId>**  **<artifactId>jackson-core</artifactId>**  **<version>2.5.0</version>**  **</dependency>**  **<dependency>**  **<groupId>com.fasterxml.jackson.core</groupId>**  **<artifactId>jackson-databind</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>com.fasterxml.jackson.jr</groupId>**  **<artifactId>jackson-jr-all</artifactId>**  **<version>2.5.0</version>**  **</dependency>**  **</dependencies>** |

### 3.2.2 新增springmvc配置文件

|  |
| --- |
| **<?xml version=*"1.0"* encoding=*"UTF-8"*?>**  **<beans xmlns=*"http://www.springframework.org/schema/beans"***  **xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns:p=*"http://www.springframework.org/schema/p"***  **xmlns:context=*"http://www.springframework.org/schema/context"***  **xmlns:mvc=*"http://www.springframework.org/schema/mvc"***  **xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd***  ***http://www.springframework.org/schema/mvc http://www.springframework.org/schema/mvc/spring-mvc-4.0.xsd***  ***http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context.xsd"*>**  **<!-- springmvc 扫包范围 -->**  **<context:component-scan base-package=*"com.itmayiedu.controller"* />**  **<!-- 开启springmvc注解 -->**  **<mvc:annotation-driven />**  **<!-- 视图跳转类型 -->**  **<bean**  **class=*"org.springframework.web.servlet.view.InternalResourceViewResolver"*>**  **<property name=*"prefix"* value=*"/WEB-INF/jsp/"* />**  **<property name=*"suffix"* value=*".jsp"* />**  **</bean>**  **</beans>** |

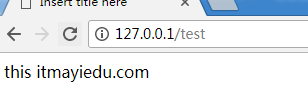
### 3.2.3 web.xml加载SpringMVC配置文件

|  |
| --- |
| **<!-- 解决post乱码 -->**  **<filter>**  **<filter-name>CharacterEncodingFilter</filter-name>**  **<filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>**  **<init-param>**  **<param-name>encoding</param-name>**  **<param-value>UTF-8</param-value>**  **</init-param>**  **<!-- <init-param> <param-name>forceEncoding</param-name> <param-value>true</param-value>**  **</init-param> -->**  **</filter>**  **<filter-mapping>**  **<filter-name>CharacterEncodingFilter</filter-name>**  **<url-pattern>/\*</url-pattern>**  **</filter-mapping>**  **<!-- springmvc的前端控制器 -->**  **<servlet>**  **<servlet-name>itmayiedu-web</servlet-name>**  **<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>**  **<!-- contextConfigLocation不是必须的， 如果不配置contextConfigLocation， springmvc的配置文件默认在：WEB-INF/servlet的name+"-servlet.xml" -->**  **<init-param>**  **<param-name>contextConfigLocation</param-name>**  **<param-value>classpath:spring/springmvc.xml</param-value>**  **</init-param>**  **<load-on-startup>1</load-on-startup>**  **</servlet>**  **<servlet-mapping>**  **<servlet-name>itmayiedu-web</servlet-name>**  **<url-pattern>/</url-pattern>**  **</servlet-mapping>** |

### 3.2.4 创建测试SpringMVC环境结果

|  |
| --- |
| **@Controller**  **public class TestController {**  **private static final String *TEST*="test";**  **@RequestMapping("/test")**  **public String test(){**  **return *TEST*;**  **}**  **}** |

### 3.2.5运行SpringMVC环境结果



Ok springMVC环境搭建成功

## 3.3Spring整合Mybatis

#### 3.3.1 表结构说明

|  |
| --- |
| --视频类型表  CREATE TABLE `video\_type` (  `id` int(11) NOT NULL AUTO\_INCREMENT COMMENT '主键(自增长)',  `type\_name` varchar(30) DEFAULT NULL COMMENT '视频类型',  PRIMARY KEY (`id`)  ) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8;  --视频详情表  CREATE TABLE `video\_info` (  `id` int(11) NOT NULL AUTO\_INCREMENT COMMENT '主键(自增长)',  `video\_name` varchar(150) DEFAULT NULL COMMENT '视频名称',  `video\_url` varchar(100) DEFAULT NULL COMMENT '封面图片',  `video\_html` varchar(500) DEFAULT NULL COMMENT '视频html执行元素',  `video\_type\_id` int DEFAULT NULL COMMENT '关联typeID',  `video\_del` INT DEFAULT 0 COMMENT '是否显示 0显示 1隐藏',  PRIMARY KEY (`id`)  ) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=utf8; |

#### 3.3.2 itmayiedu-dao工程中新增依赖

|  |
| --- |
| **<!-- 依赖管理 -->**  **<dependencies>**  **<dependency>**  **<groupId>com.itmayiedu</groupId>**  **<artifactId>weixin-entity</artifactId>**  **<version>0.0.1-SNAPSHOT</version>**  **</dependency>**  **<!-- Mybatis -->**  **<dependency>**  **<groupId>org.mybatis</groupId>**  **<artifactId>mybatis</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>org.mybatis</groupId>**  **<artifactId>mybatis-spring</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>com.github.miemiedev</groupId>**  **<artifactId>mybatis-paginator</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>com.github.pagehelper</groupId>**  **<artifactId>pagehelper</artifactId>**  **</dependency>**  **<!-- MySql -->**  **<dependency>**  **<groupId>mysql</groupId>**  **<artifactId>mysql-connector-java</artifactId>**  **</dependency>**  **<!-- 连接池 -->**  **<dependency>**  **<groupId>com.alibaba</groupId>**  **<artifactId>druid</artifactId>**  **</dependency>**  **</dependencies>**  **<!-- 如果不添加此节点mybatis的mapper.xml文件都会被漏掉。 -->**  **<build>**  **<resources>**  **<resource>**  **<directory>src/main/java</directory>**  **<includes>**  **<include>\*\*/\*.properties</include>**  **<include>\*\*/\*.xml</include>**  **</includes>**  **<filtering>false</filtering>**  **</resource>**  **</resources>**  **</build>** |

#### 3.3.2 itmayiedu-service工程中新增依赖

|  |
| --- |
| **<dependencies>**  **<dependency>**  **<groupId>com.itmayiedu</groupId>**  **<artifactId>itmayiedu-dao</artifactId>**  **<version>0.0.1-SNAPSHOT</version>**  **</dependency>**  **<!-- Spring -->**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-context</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-beans</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-jdbc</artifactId>**  **</dependency>**  **<dependency>**  **<groupId>org.springframework</groupId>**  **<artifactId>spring-aspects</artifactId>**  **</dependency>**  **<!-- 日志处理 -->**  **<dependency>**  **<groupId>org.slf4j</groupId>**  **<artifactId>slf4j-log4j12</artifactId>**  **</dependency>**  **</dependencies>** |

#### 3.3.3新增db.properties

|  |
| --- |
| **jdbc.driver=com.mysql.jdbc.Driver**  **jdbc.host=localhost**  **jdbc.database=test**  **jdbc.userName=root**  **jdbc.passWord=root**  **jdbc.initialSize=0**  **jdbc.maxActive=20**  **jdbc.maxIdle=20**  **jdbc.minIdle=1**  **jdbc.maxWait=1000** |

#### 3.3.4新增applicationContext-service

|  |
| --- |
| **<beans xmlns=*"http://www.springframework.org/schema/beans"***  **xmlns:context=*"http://www.springframework.org/schema/context"* xmlns:p=*"http://www.springframework.org/schema/p"***  **xmlns:aop=*"http://www.springframework.org/schema/aop"* xmlns:tx=*"http://www.springframework.org/schema/tx"***  **xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"***  **xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-4.0.xsd***  ***http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-4.0.xsd***  ***http://www.springframework.org/schema/aop http://www.springframework.org/schema/aop/spring-aop-4.0.xsd http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-tx-4.0.xsd***  ***http://www.springframework.org/schema/util http://www.springframework.org/schema/util/spring-util-4.0.xsd"*>**  **<!-- 开启注解 -->**  **<context:component-scan base-package=*"com.itmayiedu.service"*></context:component-scan>**  **</beans>** |

#### 3.3.5新增applicationContext-dao

|  |
| --- |
| **<beans xmlns=*"http://www.springframework.org/schema/beans"***  **xmlns:context=*"http://www.springframework.org/schema/context"* xmlns:p=*"http://www.springframework.org/schema/p"***  **xmlns:aop=*"http://www.springframework.org/schema/aop"* xmlns:tx=*"http://www.springframework.org/schema/tx"***  **xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"***  **xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-4.0.xsd***  ***http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-4.0.xsd***  ***http://www.springframework.org/schema/aop http://www.springframework.org/schema/aop/spring-aop-4.0.xsd http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-tx-4.0.xsd***  ***http://www.springframework.org/schema/util http://www.springframework.org/schema/util/spring-util-4.0.xsd"*>**  **<!-- 数据库连接池 -->**  **<!-- 加载配置文件 -->**  **<context:property-placeholder location=*"classpath:properties/\*.properties"* />**  **<!-- 数据库连接池 -->**  **<bean id=*"dataSource"* class=*"com.alibaba.druid.pool.DruidDataSource"***  **destroy-method=*"close"*>**  **<property name=*"driverClassName"* value=*"${jdbc.driver}"* />**  **<property name=*"url"***  **value=*"jdbc:mysql://${jdbc.host}:3306/${jdbc.database}?useUnicode=true&amp;characterEncoding=utf-8&amp;zeroDateTimeBehavior=convertToNull"* />**  **<property name=*"username"* value=*"${jdbc.userName}"* />**  **<property name=*"password"* value=*"${jdbc.passWord}"* />**  **<!-- 初始化连接大小 -->**  **<property name=*"initialSize"* value=*"${jdbc.initialSize}"*></property>**  **<!-- 连接池最大数量 -->**  **<property name=*"maxActive"* value=*"${jdbc.maxActive}"*></property>**  **<!-- 连接池最大空闲 -->**  **<property name=*"maxIdle"* value=*"${jdbc.maxIdle}"*></property>**  **<!-- 连接池最小空闲 -->**  **<property name=*"minIdle"* value=*"${jdbc.minIdle}"*></property>**  **</bean>**  **<!-- spring和MyBatis完美整合，不需要mybatis的配置映射文件 -->**  **<bean id=*"sqlSessionFactory"* class=*"org.mybatis.spring.SqlSessionFactoryBean"*>**  **<property name=*"dataSource"* ref=*"dataSource"* />**  **<!-- 自动扫描mapping.xml文件 -->**  **<property name=*"mapperLocations"* value=*"classpath:mappings/\*.xml"*></property>**  **</bean>**    **<!-- DAO接口所在包名，Spring会自动查找其下的类 -->**  **<bean class=*"org.mybatis.spring.mapper.MapperScannerConfigurer"*>**  **<property name=*"basePackage"* value=*"com.itmayiedu.dao"* />**  **<property name=*"sqlSessionFactoryBeanName"* value=*"sqlSessionFactory"*></property>**  **</bean>**    **<!-- (事务管理)transaction manager, use JtaTransactionManager for global tx -->**  **<bean id=*"transactionManager"***  **class=*"org.springframework.jdbc.datasource.DataSourceTransactionManager"*>**  **<property name=*"dataSource"* ref=*"dataSource"* />**  **</bean>**  **</beans>** |

#### 3.3.6新增 applicationContext-trans

|  |
| --- |
| <beans xmlns=*"http://www.springframework.org/schema/beans"*  xmlns:context=*"http://www.springframework.org/schema/context"* xmlns:p=*"http://www.springframework.org/schema/p"*  xmlns:aop=*"http://www.springframework.org/schema/aop"* xmlns:tx=*"http://www.springframework.org/schema/tx"*  xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*  xsi:schemaLocation=*"http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-4.0.xsd*  *http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-4.0.xsd*  *http://www.springframework.org/schema/aop http://www.springframework.org/schema/aop/spring-aop-4.0.xsd http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-tx-4.0.xsd*  *http://www.springframework.org/schema/util http://www.springframework.org/schema/util/spring-util-4.0.xsd"*>  <!-- 事务管理器 -->  <bean id=*"transactionManager"*  class=*"org.springframework.jdbc.datasource.DataSourceTransactionManager"*>  <!-- 数据源 -->  <property name=*"dataSource"* ref=*"dataSource"* />  </bean>  <!-- 通知 -->  <tx:advice id=*"txAdvice"* transaction-manager=*"transactionManager"*>  <tx:attributes>  <!-- 传播行为 -->  <tx:method name=*"save\*"* propagation=*"REQUIRED"* />  <tx:method name=*"insert\*"* propagation=*"REQUIRED"* />  <tx:method name=*"add\*"* propagation=*"REQUIRED"* />  <tx:method name=*"create\*"* propagation=*"REQUIRED"* />  <tx:method name=*"delete\*"* propagation=*"REQUIRED"* />  <tx:method name=*"update\*"* propagation=*"REQUIRED"* />  <tx:method name=*"find\*"* propagation=*"SUPPORTS"* read-only=*"true"* />  <tx:method name=*"select\*"* propagation=*"SUPPORTS"* read-only=*"true"* />  <tx:method name=*"get\*"* propagation=*"SUPPORTS"* read-only=*"true"* />  </tx:attributes>  </tx:advice>  <!-- 切面 -->  <aop:config>  <aop:advisor advice-ref=*"txAdvice"*  pointcut=*"execution(\* com.itmayiedu.service.\*.\*(..))"* />  </aop:config>  </beans> |

#### 3.3.7使用generator生成数据ORM映射文件

#### 3.3.8 实现查询所有视频类型

|  |
| --- |
| /\*\*  \*  \* **@classDesc**: 功能描述:(测试TestController)  \* **@author**: 余胜军  \* **@createTime**: 2017年9月13日 下午9:01:42  \* **@version**: v1.0  \* **@copyright**:上海每特教育科技有限公司  \* **@QQ**:644064779  \*/  @Controller  **public** **class** TestController {  **private** **static** **final** String ***TEST*** = "test";  @Autowired  **private** VideoTypeService videoTypeService;  @RequestMapping("/test")  **public** String test() {  **return** ***TEST***;  }  @ResponseBody  @RequestMapping("/getViideType")  **public** List<VideoType> getViideType() {  System.***out***.println("listVideoType start");  List<VideoType> listVideoType = videoTypeService.showVideoType(**null**);  System.***out***.println("listVideoType end");  **return** listVideoType;  }  }  **@Service**  **public class VideoTypeServiceImpl implements VideoTypeService {**  **@Autowired**  **private VideoTypeMapper videoTypeMapper;**  **public List<VideoType> showVideoType(VideoType record) {**  **return videoTypeMapper.selectList(record);**  **}**  **}**  **public** **interface** VideoTypeMapper {  List<VideoType> selectList(VideoType record);  }  **<?xml version=*"1.0"* encoding=*"UTF-8"* ?>**  **<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">**  **<mapper namespace=*"com.itmayiedu.dao.VideoTypeMapper"*>**  **<resultMap id=*"BaseResultMap"* type=*"com.itmayiedu.entity.VideoType"*>**  **<id column=*"id"* property=*"id"* jdbcType=*"INTEGER"* />**  **<result column=*"type\_name"* property=*"typeName"* jdbcType=*"VARCHAR"* />**  **</resultMap>**  **<sql id=*"Base\_Column\_List"*>**  **id, type\_name**  **</sql>**  **<select id=*"selectByPrimaryKey"* resultMap=*"BaseResultMap"***  **parameterType=*"java.lang.Integer"*>**  **select**  **<include refid=*"Base\_Column\_List"* />**  **from video\_type**  **where id = #{id,jdbcType=INTEGER}**  **</select>**  **<delete id=*"deleteByPrimaryKey"* parameterType=*"java.lang.Integer"*>**  **delete from**  **video\_type**  **where id = #{id,jdbcType=INTEGER}**  **</delete>**  **<insert id=*"insert"* parameterType=*"com.itmayiedu.entity.VideoType"*>**  **insert into video\_type (id,**  **type\_name)**  **values (#{id,jdbcType=INTEGER},**  **#{typeName,jdbcType=VARCHAR})**  **</insert>**  **<insert id=*"insertSelective"* parameterType=*"com.itmayiedu.entity.VideoType"*>**  **insert into video\_type**  **<trim prefix=*"("* suffix=*")"* suffixOverrides=*","*>**  **<if test=*"id != null"*>**  **id,**  **</if>**  **<if test=*"typeName != null"*>**  **type\_name,**  **</if>**  **</trim>**  **<trim prefix=*"values ("* suffix=*")"* suffixOverrides=*","*>**  **<if test=*"id != null"*>**  **#{id,jdbcType=INTEGER},**  **</if>**  **<if test=*"typeName != null"*>**  **#{typeName,jdbcType=VARCHAR},**  **</if>**  **</trim>**  **</insert>**  **<update id=*"updateByPrimaryKeySelective"* parameterType=*"com.itmayiedu.entity.VideoType"*>**  **update video\_type**  **<set>**  **<if test=*"typeName != null"*>**  **type\_name = #{typeName,jdbcType=VARCHAR},**  **</if>**  **</set>**  **where id = #{id,jdbcType=INTEGER}**  **</update>**  **<update id=*"updateByPrimaryKey"* parameterType=*"com.itmayiedu.entity.VideoType"*>**  **update video\_type**  **set type\_name = #{typeName,jdbcType=VARCHAR}**  **where id =**  **#{id,jdbcType=INTEGER}**  **</update>**  **<select id=*"selectList"* resultMap=*"BaseResultMap"***  **parameterType=*"com.itmayiedu.entity.VideoType"*>**  **select**  **<include refid=*"Base\_Column\_List"* />**  **from video\_type**  **where**  **1=1**  **<if test=*"id != null"*>**  **and #{id,jdbcType=INTEGER},**  **</if>**  **<if test=*"typeName != null"*>**  **and #{typeName,jdbcType=VARCHAR},**  **</if>**  **</select>**  **</mapper>** |

#### 3.3.9 web.xml配置加载spring

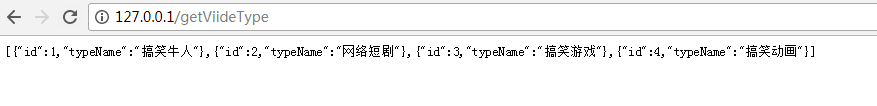
|  |
| --- |
| **<!-- 加载spring容器 -->**  **<context-param>**  **<param-name>contextConfigLocation</param-name>**  **<param-value>classpath:spring/applicationContext-\*.xml</param-value>**  **</context-param>**  **<listener>**  **<listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>**  **</listener>** |

#### 3.3.10 运行结果解决406

使用SpringMVC返回json格式,返回状态406,表示SpringMVC没有集成JSON转换器

解决办法:

|  |
| --- |
| **<!-- 避免IE执行AJAX时,返回JSON出现下载文件 -->**  **<bean id=*"mappingJacksonHttpMessageConverter"***  **class=*"org.springframework.http.converter.json.MappingJackson2HttpMessageConverter"*>**  **<property name=*"supportedMediaTypes"*>**  **<list>**  **<value>text/html;charset=UTF-8</value>**  **</list>**  **</property>**  **</bean>**  **<!-- 启动Spring MVC的注解功能，完成请求和注解POJO的映射 -->**  **<bean**  **class=*"org.springframework.web.servlet.mvc.annotation.AnnotationMethodHandlerAdapter"*>**  **<property name=*"messageConverters"*>**  **<list>**  **<ref bean=*"mappingJacksonHttpMessageConverter"* /><!-- json转换器 -->**  **</list>**  **</property>**  **</bean>** |



Ok SpringMVC+Mybatis+Spring+Maven环境整合成功!

## 3.4 Spring整合log4j

### 3.4.1创建log4j.properties

在resources/properties下创建log4j.properties文件

|  |
| --- |
| ### set log levels ###  log4j.rootLogger =INFO,DEBUG, stdout , R  log4j.appender.stdout = org.apache.log4j.ConsoleAppender  log4j.appender.stdout.Target = System.out  log4j.appender.stdout.layout = org.apache.log4j.PatternLayout  log4j.appender.stdout.layout.ConversionPattern = [%-5p] %d{yyyy-MM-dd HH:mm:ss,SSS} method:%l%n%m%n  log4j.appender.D = org.apache.log4j.DailyRollingFileAppender  log4j.appender.D.File = E://logs/log.log  log4j.appender.D.Append = true  log4j.appender.D.Threshold = DEBUG  log4j.appender.D.layout = org.apache.log4j.PatternLayout  log4j.appender.D.layout.ConversionPattern = %-d{yyyy-MM-dd HH:mm:ss} [ %t:%r ] - [ %p ] %m%n  log4j.appender.E = org.apache.log4j.DailyRollingFileAppender  log4j.appender.E.File =E://logs/error.log  log4j.appender.E.Append = true  log4j.appender.E.Threshold = ERROR  log4j.appender.E.layout = org.apache.log4j.PatternLayout  log4j.appender.E.layout.ConversionPattern = %-d{yyyy-MM-dd HH:mm:ss} [ %t:%r ] - [ %p ] %m%n |

### 3.4.2web.xml加载 log4j.properties

|  |
| --- |
| **<!--设置log4j的配置文件位置 -->**  **<context-param>**  **<param-name>log4jConfigLocation</param-name>**  **<param-value>/WEB-INF/classes/properties/log4j.properties</param-value>**  **</context-param>**  **<!--使用监听加载log4j的配置文件 -->**  **<listener>**  **<listener-class>org.springframework.web.util.Log4jConfigListener</listener-class>**  **</listener>** |

**使用API**

**private static Logger log = Logger.getLogger(TestController.class);**

# 四、后台管理

### 4.1 搭建编写视频查询页面

步骤:创建JSP页面,引入C标签

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

### 4.2 实现后台视频查询页面

#### 4.2.1查询jsp页面

|  |
| --- |
| **<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"***  **pageEncoding=*"UTF-8"*%>**  **<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>**  **<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">**  **<html>**  **<head>**  **<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>**  **<title>后台管理系统</title>**  **</head>**  **<body>**  **<center>**  **<h1>蚂蚁视频后台管理系统</h1>**  **<a href=*"locaAddVideo"*>添加资源</a>**  **<table style="BORDER-COLLAPSE: *collapse*; text-align: *center*;"**  **borderColor=*#000000* height=*40* cellPadding=*1* width=*"70%"***  **align=*"center"* border=*1*>**  **<thead>**  **<tr>**  **<th>图片</th>**  **<th>视频名称</th>**  **<th>视频类型</th>**  **<th>预览视频</th>**  **</tr>**  **</thead>**  **<tbody>**  **<c:forEach items=*"*${listVideoInfo}*"* var=*"p"*>**  **<tr style="font-size: *18px*">**  **<td><img alt=*""* width=*"150px;"* height=*"150px;"***  **src=*"/static/imgs/*${p.videoUrl}*"*></td>**  **<td>${p.videoName}</td>**  **<td>${p.typeName}</td>**  **<td><a href=*"videoDetails?id=*${p.id}*"* style='text-decoration:*none*;'>预览视频</a></td>**  **</tr>**  **</c:forEach>**  **</tbody>**  **</table>**  **</center>**  **</body>**  **</html>** |

#### 42.2编写XML SQL 语句

|  |
| --- |
| <select id=*"selectAll"* parameterType=*"com.itmayiedu.entity.VideoInfo"*  resultType=*"com.itmayiedu.entity.VideoInfo"*>  select a.id as id,a.video\_name as videoName, a.video\_html as videoHtml ,a.video\_url as videoUrl, a.video\_del as videoDel  , b.type\_name as typeName  from video\_info as a inner join video\_type as b on a.video\_type\_id=b.id;  </select> |

#### 4.2.3 完成页面展示

### 4.3 后台添加资源管理

#### 4.3.1 创建上传资源页面

|  |
| --- |
| **<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"***  **pageEncoding=*"UTF-8"*%>**  **<%@ taglib prefix=*"c"* uri=*"http://java.sun.com/jsp/jstl/core"*%>**  **<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">**  **<html>**  **<head>**  **<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>**  **<title>添加视频资源</title>**  **</head>**  **<body>**  **<center>**  **<h1>蚂蚁视频后台添加视频资源</h1>**  **<form action=*"addVideo"* style="font-size: *14px*;" method=*"post"***  **ENCTYPE=*"multipart/form-data"*>**  **<table>**  **<tr>**  **<td>视频名称:</td>**  **<td><input type=*"text"* name=*videoName*></td>**  **</tr>**  **<tr>**  **<td>视频类型:</td>**  **<td><select name=*"videoTypeId"* style="width: *170px*;">**  **<c:forEach items=*"*${listVideoType}*"* var=*"p"*>**  **<option value=*"*${p.id}*"*>${p.typeName}</option>**  **</c:forEach>**  **</select></td>**  **</tr>**  **<tr>**  **<td>优酷播放URL:</td>**  **<td><textarea rows=*"10"* cols=*"30"* name=*"videoHtml"*></textarea></td>**  **</tr>**  **<tr>**  **<td>上传封面:</td>**  **<td><input type=*"file"* name=*"file"*></td>**  **</tr>**  **<tr> <td colspan=*"2"*><input type=*"submit"* value=*"提交"*></td></tr>**  **</table>**  **</form>**  **</center>**  **</body>**  **</html>** |

#### 4.3.2 springmvc.xml文件中新增上传文件配置

|  |
| --- |
| <!-- 支持上传文件 -->  <bean id=*"multipartResolver"*  class=*"org.springframework.web.multipart.commons.CommonsMultipartResolver"* /> |

#### 4.3.3 后端代码上传文件

|  |
| --- |
| **@RequestMapping("/addVideo")**  **public String addVideo(@RequestParam(value = "file", required = false) MultipartFile file, VideoInfo videoInfo,**  **HttpServletRequest req, HttpServletResponse res) {**  **try {**  **// 获取当前上下文**  **String path = req.getSession().getServletContext().getRealPath("/static/imgs");**  **// 文件名称**  **String newName = System.*currentTimeMillis*() + ".png";**  **File targetFile = new File(path, newName);**  **// 文件夹不存在,则创建文件夹**  **if (!targetFile.exists()) {**  **targetFile.mkdirs();**  **}**  **// 保存**  **try {**  **file.transferTo(targetFile);**  **} catch (Exception e) {**  ***log*.error(e);**  **}**  **videoInfo.setVideoUrl(newName);**  **videoInfoService.addVideoInfo(videoInfo);**  **req.setAttribute("result", "封面上传成功!");**  **return "redirect:/videoManag";**  **} catch (Exception e) {**  ***log*.error(e);**  **req.setAttribute("result", "上传失败!");**  **return *LOCAVIDEO*;**  **}**  **}** |

### 4.4 视频详情页面

#### 4.4.1视频详情页面

|  |
| --- |
| <%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*  pageEncoding=*"UTF-8"*%>  <!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">  <html>  <head>  <meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>  <title>${videoInfo.videoName}视频详情</title>  </head>  <body>  <center>  <h1>${videoInfo.videoName}</h1>  <iframe height=*600* width=*600* src=*'*${videoInfo.videoHtml}*'*  frameborder=*0*'allowfullscreen'></iframe>  </center>  </body>  </html> |

#### 4.4.2视频详情后台代码

|  |
| --- |
| **@RequestMapping("/videoDetails")**  **public String videoDetails(int id, HttpServletRequest request) {**  **VideoInfo videoInfo = videoInfoService.getVideoInfo(id);**  **request.setAttribute("videoInfo", videoInfo);**  **return *VIDEODETAILS*;**  **}** |

### 4.6静态资源访问404原因

|  |
| --- |
| <mvc:annotation-driven />  <mvc:resources mapping=*"/static/imgs/\*\*"* location=*"static/imgs/"* />  <mvc:resources mapping=*"/static/easyui/\*\*"* location=*"static/easyui/"* />  <mvc:resources mapping=*"/static/js/\*\*"* location=*"static/js/"* />  <mvc:resources mapping=*"/static/css/\*\*"* location=*"static/css/"* /> |

### 4.7整合pagehelper分页查询

#### 4.7.1 将pagehelper版本修改为3.6.4

#### 4.7.2 新增mybatis-config.xml文件

|  |
| --- |
| **<?xml version=*"1.0"* encoding=*"UTF-8"* ?>**  **<!DOCTYPE configuration**  **PUBLIC "-//mybatis.org//DTD Config 3.0//EN"**  **"http://mybatis.org/dtd/mybatis-3-config.dtd">**  **<configuration>**  **<!-- 配置分页插件 -->**  **<plugins>**  **<plugin interceptor=*"com.github.pagehelper.PageHelper"*>**  **<!-- 设置数据库类型 Oracle,Mysql,MariaDB,SQLite,Hsqldb,PostgreSQL六种数据库-->**  **<property name=*"dialect"* value=*"mysql"*/>**  **</plugin>**  **</plugins>**  **</configuration>** |

#### 4.7.3 applicationContext-dao.xml加载mybatis-config.xml

|  |
| --- |
| **<!-- spring和MyBatis完美整合，不需要mybatis的配置映射文件 -->**  **<bean id=*"sqlSessionFactory"* class=*"org.mybatis.spring.SqlSessionFactoryBean"*>**  **<property name=*"dataSource"* ref=*"dataSource"* />**  **<!-- 自动扫描mapping.xml文件 -->**  **<property name=*"mapperLocations"* value=*"classpath:mappings/\*.xml"*></property>**  **<property name=*"configLocation"* value=*"classpath:spring/mybatis-config.xml"* />**  **</bean>** |

#### 4.7.4 Java代码使用

|  |
| --- |
| @RequestMapping("/indexVideo")  **public** String indexVideo(HttpServletRequest request, **int** pageIndex) {  Page page = PageHelper.*startPage*(pageIndex, 2);  request.setAttribute("listVideo", videoInfoService.getVoideAll(**null**));  request.setAttribute("pageSize", page.getPages());  **return** ***INDEXVIDEO***;  } |

#### 4.7.5 前端代码

|  |
| --- |
| **<a style="font-size: *20px*;" href=*"indexVideo?pageIndex=1"*>首页</a>**  **<c:forEach begin=*"1"* end=*"*${pageSize}*"* var=*"p"*>**  **<a style="font-size: *20px*;" href=*"indexVideo?pageIndex=*${p}*"*>${p}</a>**  **</c:forEach>**  **<a style="font-size: *20px*;" href=*"indexVideo?pageIndex=*${pageSize}*"*>尾页</a>** |