

# SSM框架整合(雷神278,279集)

---

Spring+SpringMVC+MyBatis

## 1. 导包

---

### 1.1. Spring

#### 【AOP核心】

com.springsource.net.sf.cglib-2.2.0.jar  
com.springsource.org.aopalliance-1.0.0.jar  
com.springsource.org.aspectj.weaver-1.6.8.RELEASE.jar

#### 【IOC核心】

commons-logging-1.1.3.jar  
spring-aop-4.0.0.RELEASE.jar  
spring-aspects-4.0.0.RELEASE.jar  
spring-beans-4.0.0.RELEASE.jar  
spring-context-4.0.0.RELEASE.jar  
spring-core-4.0.0.RELEASE.jar  
spring-expression-4.0.0.RELEASE.jar

#### 【JDBC核心】

spring-jdbc-4.0.0.RELEASE.jar  
spring-orm-4.0.0.RELEASE.jar  
spring-tx-4.0.0.RELEASE.jar

#### 【测试核心】

spring-test-4.0.0.RELEASE.jar

### 1.2. SpringMVC

#### 【ajax】

jackson-annotations-2.1.5.jar  
jackson-core-2.1.5.jar  
jackson-databind-2.1.5.jar

#### 【数据校验】JSP303校验

hibernate-validator-5.0.0.CR2.jar  
hibernate-validator-annotation-processor-5.0.0.CR2.jar  
classmate-0.8.0.jar  
jboss-logging-3.1.1.GA.jar  
validation-api-1.1.0.CR1.jar

#### 【上传下载】

commons-fileupload-1.2.1.jar

commons-io-2.0.jar

【jstl-jsp标准标签库】

jstl.jar

standard.jar

【验证码】

kaptcha-2.3.2.jar

【SpringMVC核心】

spring-web-4.0.0.RELEASE.jar

spring-webmvc-4.0.0.RELEASE.jar

## 1.3. MyBatis

【MyBatis核心】

mybatis-3.4.1.jar

mybatis-spring-1.3.0.jar 【和Spring整合包】

【ehcache整合】

ehcache-core-2.6.8.jar

mybatis-ehcache-1.0.3.jar

log4j-1.2.17.jar

slf4j-api-1.7.21.jar

slf4j-log4j12-1.7.21.jar

## 1.4. 其他jar包

mysql-connector-java-5.1.37-bin.jar

c3p0-0.9.1.2.jar

## 2. 写配置

### 2.1. web配置

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://java.sun.com/xml/ns/javaee"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
  http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" id="WebApp_ID"
  version="3.0">
3   <!-- 工具编辑部署描述符，display-name元素包含的就是XML编辑器显示的名称。就是说明的跟
  你配置不相关 -->
4   <display-name>test3_demo</display-name>
5   <welcome-file-list>
6     <welcome-file>index.jsp</welcome-file>
7   </welcome-file-list>
8   <!-- 配置Spring容器启动: -->
9   <!-- needed for ContextLoaderListener -->
10  <context-param>
```

```
11     <param-name>contextConfigLocation</param-name>
12     <!-- 指定Spring配置文件位置 -->
13     <param-value>classpath:spring/applicationContext.xml</param-value>
14 </context-param>
15
16     <!-- Bootstraps the root web application context before servlet
initialization -->
17     <listener>
18         <listener-
class>org.springframework.web.context.ContextLoaderListener</listener-class>
19     </listener>
20
21     <!-- 配置SpringMVC前端控制器 -->
22     <!-- The front controller of this Spring Web application, responsible
for handling all application requests -->
23     <servlet>
24         <servlet-name>springDispatcherServlet</servlet-name>
25         <servlet-
class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
26         <init-param>
27             <param-name>contextConfigLocation</param-name>
28             <param-value>classpath:spring/applicationContext-mvc.xml</param-
value>
29         </init-param>
30         <load-on-startup>1</load-on-startup>
31     </servlet>
32
33     <!-- Map all requests to the DispatcherServlet for handling -->
34     <servlet-mapping>
35         <servlet-name>springDispatcherServlet</servlet-name>
36         <url-pattern>/</url-pattern>
37     </servlet-mapping>
38
39     <!-- 两个标准配置 -->
40     <!-- 字符编码 -->
41     <filter>
42         <filter-name>CharacterEncodingFilter</filter-name>
43         <filter-
class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
44         <init-param>
45             <param-name>encoding</param-name>
46             <param-value>UTF-8</param-value>
47         </init-param>
48         <init-param>
49             <param-name>forceEncoding</param-name>
50             <param-value>true</param-value>
51         </init-param>
52     </filter>
53     <filter-mapping>
54         <filter-name>CharacterEncodingFilter</filter-name>
55         <url-pattern>/*</url-pattern>
56     </filter-mapping>
57     <!-- 支持Rest风格的过滤器 -->
58     <filter>
59         <filter-name>HiddenHttpMethodFilter</filter-name>
60         <filter-
class>org.springframework.web.filter.HiddenHttpMethodFilter</filter-class>
61     </filter>
```

```

62     <filter-mapping>
63         <filter-name>HiddenHttpMethodFilter</filter-name>
64         <url-pattern>/*</url-pattern>
65     </filter-mapping>
66
67 </web-app>
68

```

## 2.2. Spring配置

```

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      xmlns:aop="http://www.springframework.org/schema/aop"
7      xsi:schemaLocation="http://www.springframework.org/schema/beans
8          http://www.springframework.org/schema/beans/spring-beans.xsd
9          http://www.springframework.org/schema/context
10         http://www.springframework.org/schema/context/spring-context.xsd
11         http://www.springframework.org/schema/aop
12         http://www.springframework.org/schema/aop/spring-aop.xsd
13         http://www.springframework.org/schema/tx
14         http://www.springframework.org/schema/tx/spring-tx.xsd">
15      <!-- Spring 除过控制器不要,剩下的业务逻辑组件都要,包括dao,包括service -->
16      <context:component-scan base-package="com.Ray">
17          <!-- 扫描排除不写use-default-filters="false" -->
18          <context:exclude-filter type="annotation"
19              expression="org.springframework.stereotype.Controller"/>
20      </context:component-scan>
21
22      <!-- 0. 导入外部配置文件 -->
23      <context:property-placeholder location="classpath:dbconfig.properties"/>
24      <!-- 1. 配数据源 -->
25      <bean id="ds" class="com.mchange.v2.c3p0.ComboPooledDataSource">
26          <property name="user" value="${jdbc.username}"></property>
27          <property name="password" value="${jdbc.password}"></property>
28          <property name="driverClass" value="${jdbc.driverclass}"></property>
29          <property name="jdbcUrl" value="${jdbc.jdbcurl}"></property>
30          <property name="maxPoolSize" value="${jdbc.maxPoolSize}"></property>
31          <property name="minPoolSize" value="${jdbc.minPoolSize}"></property>
32      </bean>
33
34      <!-- 2. 配置JdbcTemplate操作数据库.pass -->
35      <!-- 3. 配置使用mybatis操作数据库 -->
36      <!-- 可以根据配置文件得到sqlSessionFactory -->
37      <bean id="" class="org.mybatis.spring.SqlSessionFactoryBean">
38          <property name="configLocation" value="classpath:mybatis:mybatis-
39              config.xml"></property>
40          <property name="dataSource" ref="ds"></property>
41          <!-- 指定xml映射文件的位置 -->
42          <property name="mapperLocations"
43              value="classpath:mybatis/mapper/*.xml"></property>
44      </bean>
45      <!-- 我们要把每一个dao接口的实现加入到ioc容器 -->

```

```

39     <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
40         <!-- 指定dao接口所在的包 --><!-- 配置文件用"/",java用"." -->
41         <property name="basePackage" value="com.Ray.dao"></property>
42     </bean>
43
44     <!-- 4.配置事务控制；配置事务管理器，让他控制住数据源里面的链接的关闭和提交-->
45     <bean id="tm"
class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
46         <property name="dataSource" ref="ds"></property>
47
48     </bean>
49
50     <!-- 5.基于xml配置,配置事务；哪些方法切入事务还要写切入点表达式 -->
51     <aop:config>
52         <!-- 配置切入点表达式 -->
53         <aop:pointcut expression="execution(* com.Ray.service.*(..))"
id="txPoint"/>
54         <aop:advisor advice-ref="" pointcut-ref="txPoint"/>
55     </aop:config>
56
57     <!-- 6.配置事务增强，事物属性，事务建议
58         transaction-manager="tm", 指定要配置的事务管理器的id
59     -->
60     <tx:advice id="myTx" transaction-manager="tm">
61         <tx:attributes>
62             <tx:method name="*" rollback-for="java.lang.Exception"/>
63             <tx:method name="get*" read-only="true"/>
64             <tx:method name="insertEmp" isolation="READ_UNCOMMITTED"/><!--
读取未提交的事务 -->
65         </tx:attributes>
66     </tx:advice>
67 </beans>
68

```

## 2.3. SpringMVC配置

```

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/mvc
http://www.springframework.org/schema/mvc/spring-mvc.xsd
7          http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
8          http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd">
9      <!-- SpringMVC只扫描控制器；禁用默认的规则 -->
10     <context:component-scan base-package="com.Ray" use-default-
filters="false">
11         <context:include-filter type="annotation"
expression="org.springframework.stereotype.Controller"/>
12     </context:component-scan>
13

```

```

14     <bean
15 class="org.springframework.web.servlet.view.InternalResourceViewResolver">
16     <property name="prefix" value="/WEB-INF/pages/"></property>
17     <property name="suffix" value=".jsp"></property>
18 </bean>
19 <!-- 配置文件上传解析器 -->
20 <bean id="multipartResolver"
21 class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
22     <property name="defaultEncoding" value="utf-8"></property>
23     <property name="maxUploadSize" value="#{1024*1024*20}"></property>
24 </bean>
25 <!-- 扫静态资源 -->
26 <mvc:default-servlet-handler/>
27 <!-- 扫动态 -->
28 <mvc:annotation-driven/>
29 </beans>

```

## 2.4. mybatis的配置

(Spring与mybatis整合包的关键配置)

mybatis的核心就是sqlSessionFactory要根据全局配置文件(mybatis-config),

创建sqlSession对象,把sqlSession拿到映射器进行增删改查

在applicationContext.xml中:

```

1  <!-- 2. 配置JdbcTemplate操作数据库.pass 现在用mybatis-->
2  <!-- 3. 配置使用mybatis操作数据库 -->
3  <!-- 可以根据配置文件得到sqlSessionFactory -->
4  <bean id="sqlSessionFactoryBean"
5  class="org.mybatis.spring.SqlSessionFactoryBean">
6      <property name="configLocation" value="classpath:mybatis/mybatis-
7  config.xml"></property>
8      <property name="dataSource" ref="ds"></property>
9      <!-- mybatis-config能写的东西,这里都可以写,完全可以去掉它,只是为了方便,将
10 mybatis-config保留 -->
11      <!-- 指定xml映射文件的位置,就不用看mapper批量注册的那个了 -->
12      <property name="mapperLocations"
13 value="classpath:mybatis/mapper/*.xml"></property>
14 </bean>
15 <!-- 我们要把每一个dao接口的实现加入到ioc容器,加了就可以Autowire dao了-->
16 <!-- 不这样写的话,可以在TeacherService里面把SqlSessionFactory@Autowire 就可
17 以,但显然自动注入dao方便操作-->
18 <!-- 整合包,可以自动扫描每一个接口的实现 -->
19 <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
20     <!-- 指定dao接口所在的包 --><!-- 配置文件用"/",java用"." -->
21     <property name="basePackage" value="com.Ray.dao"></property>
22 </bean>

```

