

# 1 整合ssm框架

## 1.1 整合的思路

一、Dao层：整合mybatis和spring

需要的jar包：

- 1、mybatis的jar包
- 2、Mysql数据库驱动
- 3、数据库连接池
- 4、Mybatis和spring的整合包。
- 5、Spring的jar包

配置文件：

- 1、mybatis的配置文件：SqlMapConfig.xml
- 2、Spring的配置文件：applicationContext-dao.xml
- 1、数据源
- 2、数据库连接池
- 3、配置SqlSessionFactory（mybatis和spring整合包中的）
- 4、配置mapper文件的扫描器。

二、Service层：

使用的jar包：spring的jar包。

配置文件：applicationContext-service.xml

配置一个包扫描器，扫描所有带@Service注解的类。

事务配置：

配置文件：applicationContext-trans.xml

- 1、配置一个事务管理器
- 2、配置tx
- 3、配置切面

三、表现层

使用springmvc，需要使用springmvc和spring的jar包。

配置文件：springmvc.xml

- 1、配置注解驱动
- 2、配置一个视图解析器。
- 3、包扫描器，@Controller注解

Web.xml

- 1、配置springmvc的前端控制器
- 2、Spring容器初始化的listener。

## 1.2 框架整合dao层

### 1.2.1 SqlMapConfig.xml

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <!DOCTYPE configuration
3     PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
4     "http://mybatis.org/dtd/mybatis-3-config.dtd">
5 <configuration>
6
7 </configuration>
```

### 1.2.2 applicationContext-dao.xml

db.properties

```
1 jdbc.driver=com.mysql.jdbc.Driver
2 jdbc.url=jdbc:mysql://localhost:3306/taotao?characterEncoding=utf-8
3 jdbc.username=root
4 jdbc.password=root
```

applicationContext-dao.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3     xmlns:context="http://www.springframework.org/schema/context"
4     xmlns:p="http://www.springframework.org/schema/p"
5     xmlns:aop="http://www.springframework.org/schema/aop"
6     xmlns:tx="http://www.springframework.org/schema/tx"
7     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
8     xsi:schemaLocation="http://www.springframework.org/schema/beans
9         http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
10        http://www.springframework.org/schema/context
```

```

http://www.springframework.org/schema/context/spring-context-4.0.xsd
8   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
9   http://www.springframework.org/schema/util
http://www.springframework.org/schema/util/spring-util-4.0.xsd">
10
11   <!-- 数据库连接池 -->
12   <!-- 加载配置文件 -->
13   <context:property-placeholder location="classpath:properties/*.properties"
/>
14   <!-- 数据库连接池 -->
15   <bean id="dataSource" class="com.alibaba.druid.pool.DruidDataSource"
16       destroy-method="close">
17       <property name="url" value="${jdbc.url}" />
18       <property name="username" value="${jdbc.username}" />
19       <property name="password" value="${jdbc.password}" />
20       <property name="driverClassName" value="${jdbc.driver}" />
21       <property name="maxActive" value="10" />
22       <property name="minIdle" value="5" />
23   </bean>
24   <!-- 让spring管理sqlSessionFactory 使用mybatis和spring整合包中的 -->
25   <bean id="sqlSessionFactory"
class="org.mybatis.spring.SqlSessionFactoryBean">
26       <!-- 数据库连接池 -->
27       <property name="dataSource" ref="dataSource" />
28       <!-- 加载mybatis的全局配置文件 -->
29       <property name="configLocation"
value="classpath:mybatis/SqlMapConfig.xml" />
30   </bean>
31   <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
32       <property name="basePackage" value="com.taotao.mapper" />
33   </bean>
34 </beans>

```

## 1.3 框架整合Service层

### 1.3.1 applicationContext-service.xml

```

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

```

```

2 <beans xmlns="http://www.springframework.org/schema/beans"
3     xmlns:context="http://www.springframework.org/schema/context"
  xmlns:p="http://www.springframework.org/schema/p"
4     xmlns:aop="http://www.springframework.org/schema/aop"
  xmlns:tx="http://www.springframework.org/schema/tx"
5     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
6     xsi:schemaLocation="http://www.springframework.org/schema/beans
  http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
7     http://www.springframework.org/schema/context
  http://www.springframework.org/schema/context/spring-context-4.0.xsd
8     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
9     http://www.springframework.org/schema/util
  http://www.springframework.org/schema/util/spring-util-4.0.xsd">
10
11     <!-- 包扫描器，扫描带@Service注解的类 -->
12     <context:component-scan base-package="com.taotao.service">
13 </context:component-scan>
14 </beans>

```

### 1.3.2 applicationContext-trans.xml

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3     xmlns:context="http://www.springframework.org/schema/context"
  xmlns:p="http://www.springframework.org/schema/p"
4     xmlns:aop="http://www.springframework.org/schema/aop"
  xmlns:tx="http://www.springframework.org/schema/tx"
5     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
6     xsi:schemaLocation="http://www.springframework.org/schema/beans
  http://www.springframework.org/schema/beans/spring-beans-4.0.xsd
7     http://www.springframework.org/schema/context
  http://www.springframework.org/schema/context/spring-context-4.0.xsd
8     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
9     http://www.springframework.org/schema/util
  http://www.springframework.org/schema/util/spring-util-4.0.xsd">
10     <!-- 事务管理器 -->

```

```

11     <bean id="transactionManager"
12
13     class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
14         <!-- 数据源 -->
15         <property name="dataSource" ref="dataSource" />
16     </bean>
17     <!-- 通知 -->
18     <tx:advice id="txAdvice" transaction-manager="transactionManager">
19         <tx:attributes>
20             <!-- 传播行为 -->
21             <tx:method name="save*" propagation="REQUIRED" />
22             <tx:method name="insert*" propagation="REQUIRED" />
23             <tx:method name="add*" propagation="REQUIRED" />
24             <tx:method name="create*" propagation="REQUIRED" />
25             <tx:method name="delete*" propagation="REQUIRED" />
26             <tx:method name="update*" propagation="REQUIRED" />
27             <tx:method name="find*" propagation="SUPPORTS" read-only="true" />
28             <tx:method name="select*" propagation="SUPPORTS" read-only="true"
29         />
30         <tx:method name="get*" propagation="SUPPORTS" read-only="true" />
31     </tx:attributes>
32 </tx:advice>
33 <!-- 切面 -->
34 <aop:config>
35     <aop:advisor advice-ref="txAdvice"
36         pointcut="execution(* com.taotao.service.*(..))" />
37 </aop:config>
38 </beans>

```

## 1.4 框架整合Controller层

### 1.4.2 springmvc.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:p="http://www.springframework.org/schema/p"
5     xmlns:context="http://www.springframework.org/schema/context"
6     xmlns:mvc="http://www.springframework.org/schema/mvc"
7     xsi:schemaLocation="http://www.springframework.org/schema/beans
8     http://www.springframework.org/schema/beans/spring-beans.xsd

```

```

7      http://www.springframework.org/schema/mvc
http://www.springframework.org/schema/mvc/spring-mvc-4.0.xsd
8      http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd">
9
10     <!-- 配置包扫描器 -->
11     <context:component-scan base-package="com.taotao.controller">
</context:component-scan>
12     <!-- 配置注解驱动 -->
13     <mvc:annotation-driven/>
14     <!-- 视图解析器 -->
15     <bean
16
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
17         <property name="prefix" value="/WEB-INF/jsp/" />
18         <property name="suffix" value=".jsp" />
19     </bean>
20 </beans>

```

## 1.5 Web.xml

### 1.5.1 web.xml

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
4     xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
5     id="taotao" version="2.5">
6     <display-name>taotao-manager</display-name>
7     <welcome-file-list>
8         <welcome-file>index.html</welcome-file>
9         <welcome-file>index.htm</welcome-file>
10        <welcome-file>index.jsp</welcome-file>
11        <welcome-file>default.html</welcome-file>
12        <welcome-file>default.htm</welcome-file>
13        <welcome-file>default.jsp</welcome-file>
14    </welcome-file-list>
15    <!-- 初始化spring容器 -->
16    <context-param>

```

```
17     <param-name>contextConfigLocation</param-name>
18     <param-value>classpath:spring/applicationContext-*.xml</param-value>
19 </context-param>
20 <listener>
21     <listener-
class>org.springframework.web.context.ContextLoaderListener</listener-class>
22     </listener>
23
24 <!-- 解决post乱码 -->
25 <filter>
26     <filter-name>CharacterEncodingFilter</filter-name>
27     <filter-
class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
28     <init-param>
29         <param-name>encoding</param-name>
30         <param-value>utf-8</param-value>
31     </init-param>
32 </filter>
33 <filter-mapping>
34     <filter-name>CharacterEncodingFilter</filter-name>
35     <url-pattern>/*</url-pattern>
36 </filter-mapping>
37
38
39 <!-- springmvc的前端控制器 -->
40 <servlet>
41     <servlet-name>taotao-manager</servlet-name>
42     <servlet-
class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
43     <!-- 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" -->
44     <init-param>
45         <param-name>contextConfigLocation</param-name>
46         <param-value>classpath:spring/springmvc.xml</param-value>
47     </init-param>
48     <load-on-startup>1</load-on-startup>
49 </servlet>
50 <servlet-mapping>
51     <servlet-name>taotao-manager</servlet-name>
52     <url-pattern>/</url-pattern>
53 </servlet-mapping>
54 </web-app>
```