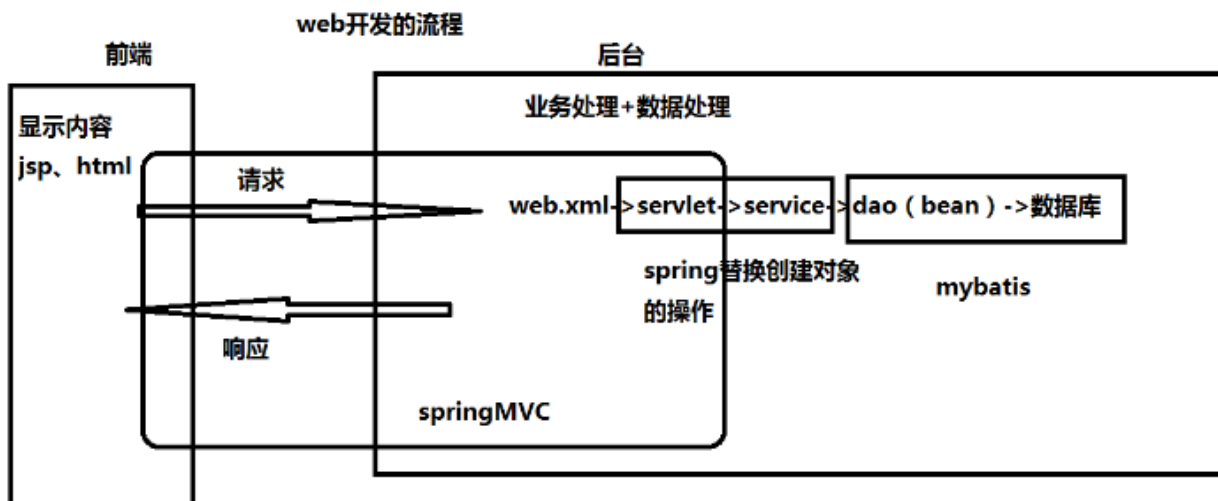


# ssm框架整合



1. 添加依赖包，可以通过properties统一框架版本

```
<properties>
    <springversion>5.0.8.RELEASE</springversion>
</properties>

<dependencies>
    <!-- 加入ServletAPI -->
    <dependency>
        <groupId>javax.servlet</groupId>
        <artifactId>javax.servlet-api</artifactId>
        <version>3.1.0</version>
        <scope>provided</scope>
    </dependency>
    <!-- MySQL依赖 start -->
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>5.1.38</version>
    </dependency>
    <!-- 加入MyBatis 依赖 start -->
    <dependency>
        <groupId>org.mybatis</groupId>
        <artifactId>mybatis</artifactId>
        <version>3.2.8</version>
    </dependency>
    <!-- 引入Spring(包含SpringMVC) 依赖 start -->
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-core</artifactId>
        <version>${springversion}</version>
    </dependency>
```

```

<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-web</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-oxm</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-tx</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-jdbc</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-aop</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-context-support</artifactId>
    <version>${springversion}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-test</artifactId>
    <version>${springversion}</version>
</dependency>
<!-- 引用插件依赖: MyBatis整合Spring,如果mybatis版本在3.4及以上版本
    mybatis-spring的版本要在1.3以上 -->
<dependency>
    <groupId>org.mybatis</groupId>
    <artifactId>mybatis-spring</artifactId>
    <version>1.2.2</version>
</dependency>
<!-- JSTL -->
<dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>

</dependency>

```

```

<!-- 德鲁伊数据连接池 -->
<dependency>
    <groupId>com.alibaba</groupId>
    <artifactId>druid</artifactId>
    <version>1.0.9</version>
</dependency>
<!-- pagehelper -->
<dependency>
    <groupId>com.github.pagehelper</groupId>
    <artifactId>pagehelper</artifactId>
    <version>4.1.6</version>
</dependency>
<!--处理json-->
<dependency>
    <groupId>com.fasterxml.jackson.core</groupId>
    <artifactId>jackson-databind</artifactId>
    <version>2.9.5</version>
</dependency>
<!--javaee-->
<dependency>
    <groupId>javax</groupId>
    <artifactId>javaee-api</artifactId>
    <version>7.0</version>
    <scope>provided</scope>
</dependency>
<!--文件上传下载-->
<dependency>
    <groupId>commons-fileupload</groupId>
    <artifactId>commons-fileupload</artifactId>
    <version>1.3.1</version>
</dependency>
<dependency>
    <groupId>commons-io</groupId>
    <artifactId>commons-io</artifactId>
    <version>2.4</version>
</dependency>
</dependencies>

```

如果遇到声明式事务报错，需要添加下面的依赖包

```

<dependency>
    <groupId>org.aspectj</groupId>
    <artifactId>aspectjweaver</artifactId>
    <version>1.9.1</version>
</dependency>

```

2.添加spring配置文件，ssm中可以省略mybatis.xml文件

3.配置web.xml文件，同时加载spring配置文件

```

<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_2_5.xsd" version="2.5">

<servlet>
    <servlet-name>mvc</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    <init-param>
        <param-name>contextConfigLocation</param-name>
        <param-value>classpath:applicationContext.xml</param-value>
    </init-param>
</servlet>

<servlet-mapping>
    <servlet-name>mvc</servlet-name>
    <url-pattern>/</url-pattern>
</servlet-mapping>

<filter>
    <filter-name>aa</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>
</filter>

<filter-mapping>
    <filter-name>aa</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>

```

#### 4.创建数据表,添加项目包结构, 包括实体类等

给dao,service,web包下使用注解创建对象, 给service,web中的属性注入对象

#### 5.配置文件代码

```

<!--1.创建数据源,使用spring连接数据库 -->
<context:property-placeholder location="db.properties" system-properties-mode="FALLBACK"/>
<bean id="db" destroy-method="close" class="com.alibaba.druid.pool.DruidDataSource">
    <property name="url" value="${url}"></property>
    <property name="username" value="${username}"></property>
    <property name="password" value="${password}"></property>
    <property name="driverClassName" value="${driver}"></property>
    <property name="maxActive" value="10"/>
    <property name="minIdle" value="5"/>
</bean>

<!--2.扫描注解包-->
<context:component-scan base-package="com"></context:component-scan>

<!--3.创建视图解析器-->

```

```

    <bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">
        <property name="prefix" value="/" />
        <property name="suffix" value=".jsp" />
    </bean>
<!--4.加载注解驱动-->
    <mvc:annotation-driven></mvc:annotation-driven>

<!--5.创建sqlsession工厂-->
    <bean id="fac" class="org.mybatis.spring.SqlSessionFactoryBean">
        <property name="dataSource" ref="db" /></property>
        <property name="mapperLocations" value="classpath:/mapper/*.xml"></property>
        <property name="configLocation" value="classpath:mybatis.xml"></property>
    </bean>
<!--6.使用dao层实现类的时候，需要得到sqlSessionTemplate对象
    <bean id="temp" class="org.mybatis.spring.SqlSessionTemplate">
        <constructor-arg index="0" ref="fac"></constructor-arg>
    </bean>-->
<!--7.配置事务-->
    <bean id="tx" class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
        <property name="dataSource" ref="db"></property>
    </bean>
<tx:annotation-driven transaction-manager="mytx"></tx:annotation-driven>
<!--8.配置静态资源-->
    <mvc:resources mapping="/css/**" location="/css/"></mvc:resources>
    <mvc:resources mapping="/dtree/**" location="/dtree/"></mvc:resources>
    <mvc:resources mapping="/Images/**" location="/Images/"></mvc:resources>
    <mvc:resources mapping="/img/**" location="/img/"></mvc:resources>
    <mvc:resources mapping="/Script/**" location="/Script/"></mvc:resources>
    <mvc:resources mapping="/Style/**" location="/Style/"></mvc:resources>
或者：
    <mvc:default-servlet-handler></mvc:default-servlet-handler>

```

## 6.配置controller文件

使用的注解：@Controller,@RequestMapping,@AutoWired,@Qualifier("empBiz")

## 7.添加service,dao层

使用的注解：@Service , @AutoWired

(1) dao层省略了实现类

(2) dao 层只定义接口,由小树叶创建dao层对象以及扫描mapper文件

注:当添加了spring-jdbc的jar包后，会自动提交事务

补充:

分页插件:

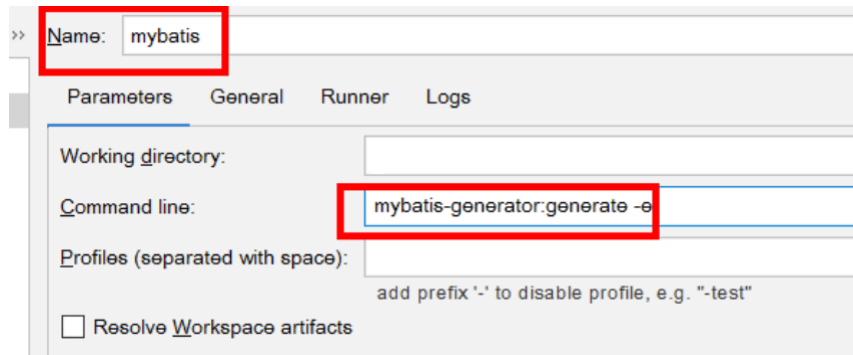
```
<plugins>
  <!-- PageHelper4.1.6 -->
  <plugin interceptor="com.github.pagehelper.PageHelper">
    <property name="dialect" value="mysql"/>
  </plugin>
</plugins>
```

(1) 省略dao层实现类(使用MapperScannerConfigurer替代SqlSessionTemplate):

```
<!--省略实现类-->
<bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
  <property name="basePackage" value="com.dao"></property>
  <property name="sqlSessionFactoryBeanName" value="fac"></property>
</bean>
```

注意:此时也可以测试使用属性文件的方式来加载数据源(支持属性文件链接数据源)

(2) maven类型的web项目加载mybatis-generator插件



注意:反向生成后, 最好把该指令删除, 否则不小心点了之后, 又会生成一遍代码, 尤其是mapper.xml文件中sql语句又会生成一遍, 运行时会报错。