08-SSM框架整合

1、三大框架整合

在老期的项目中,一般都是使用ssm项目做开发的,虽然现在的主流开发是springboot来做开发,但是ssm的基本整合还是需要掌握的。

整合SSM框架要做哪些事情:

- SpringMVC: pom
 - 1. web.xml
 - a. 前端调度器servlet
 - b. 编码过滤器filter
 - c. 支持rest的过滤器
 - 2. springmvc.xml
 - a. 扫描controller包
 - b. 添加<annotation-driver>
 - c. 视图解析器
 - d. 静态资源解析
 - 3. 添加控制器类...
- Spring:
 - 1. web.xml
 - a. 监听器 (在启动web容器时加载)
 - 2. spring.xml
 - a. 扫描所有除了controller包的其他包
 - b. 声明式事
- MyBatis
- 1. 需要和spring整合
 - a. 将sqlSessionFactory 配置为spring的bean
 - i. 数据源 配置为spring的bean
 - ii. 全局配置文件
 - iii. 所有mapper映射文件
 - b. 将mapper接口的包交给spring
- 2. 加入全局配置文件

1、导入pom文件

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xs

```
<modelVersion>4.0.0</modelVersion>
6
7
       <groupId>cn.tulingxueyuan
       <artifactId>ssm</artifactId>
8
       <version>1.0-SNAPSHOT
9
10
       cproperties>
           <SPRING.VERSION>5.2.6.RELEASE/SPRING.VERSION>
           <ASPECTJWEAVER.VERSION>1.9.5/ASPECTJWEAVER.VERSION>
14
       </properties>
       <dependencies>
16
17
           <!--springmvc-->
           <dependency>
18
               <groupId>org.springframework</groupId>
19
               <artifactId>spring-webmvc</artifactId>
20
               <version>${SPRING.VERSION}</version>
21
           </dependency>
           <!--spring-->
           <dependency>
               <groupId>org.springframework</groupId>
25
26
               <artifactId>spring-aop</artifactId>
               <version>${SPRING.VERSION}</version>
           </dependency>
28
           <dependency>
29
               <groupId>org.aspectj</groupId>
               <artifactId>aspectjweaver</artifactId>
               <version>${ASPECTJWEAVER.VERSION}</version>
           </dependency>
           <dependency>
               <groupId>org.springframework
               <artifactId>spring-aspects</artifactId>
               <version>${SPRING.VERSION}</version>
           </dependency>
           <dependency>
               <groupId>org.springframework</groupId>
40
               <artifactId>spring-orm</artifactId>
41
               <version>${SPRING.VERSION}</version>
42
           </dependency>
43
44
```

```
<!--spring-mybatis 适配器-->
45
          <dependency>
46
              <groupId>org.mybatis
47
              <artifactId>mybatis-spring</artifactId>
48
              <version>2.0.5
49
          </dependency>
          <!--mybatis核心依赖-->
          <dependency>
54
              <groupId>org.mybatis
              <artifactId>mybatis</artifactId>
              <version>3.5.5
          </dependency>
          <!--连接池-->
          <dependency>
60
              <groupId>com.alibaba/groupId>
61
              <artifactId>druid</artifactId>
62
              <version>1.1.21
          </dependency>
64
          <!--mysql 对应版本的连接器驱动-->
65
66
          <dependency>
              <groupId>mysql</groupId>
67
              <artifactId>mysql-connector-java</artifactId>
68
              <version>5.1.47
69
          </dependency>
70
          <!-- log start -->
          <dependency>
72
              <groupId>org.slf4j</groupId>
              <artifactId>slf4j-api</artifactId>
74
              <version>1.7.30
          </dependency>
76
77
78
          <dependency>
79
              <groupId>ch.qos.logback
80
              <artifactId>logback-classic</artifactId>
81
              <version>1.2.3
82
```

```
<!-- log end -->
84
85
86
           <!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-core
87
88
           <dependency>
               <groupId>com.fasterxml.jackson.core</groupId>
89
               <artifactId>jackson-core</artifactId>
90
               <version>2.10.3
91
           </dependency>
92
           <!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-datab:
93
           <dependency>
               <groupId>com.fasterxml.jackson.core</groupId>
               <artifactId>jackson-databind</artifactId>
96
               <version>2.10.3
97
           </dependency>
           <!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-annota
99
           <dependency>
               <groupId>com.fasterxml.jackson.core
               <artifactId>jackson-annotations</artifactId>
102
               <version>2.10.3
103
104
           </dependency>
105
           <dependency>
106
               <groupId>junit
107
               <artifactId>junit</artifactId>
108
               <version>4.12
109
110
               <scope>test</scope>
           </dependency>
111
        </dependencies>
112
113
114 </project>
```

2、编写各个框架的配置文件

web.xml

```
6
7
       <!--spring 基于web应用的启动-->
8
       tener>
9
10
           tener-class>org.springframework.web.context.ContextLoaderListener/listener-
11
       </listener>
       <!--全局参数: spring配置文件-->
       <context-param>
13
           <param-name>contextConfigLocation/param-name>
14
15
           <param-value>classpath:spring-core.xml</param-value>
       </context-param>
16
17
18
19
       <!--前端调度器servlet-->
       <servlet>
           <servlet-name>dispatcherServlet</servlet-name>
           <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
23
           <!--设置配置文件的路径-->
           <init-param>
               <param-name>contextConfigLocation</param-name>
26
               <param-value>classpath:spring-mvc.xml</param-value>
2.7
           </init-param>
2.8
           <!--设置启动即加载-->
29
           <load-on-startup>1</load-on-startup>
       </servlet>
       <servlet-mapping>
           <servlet-name>dispatcherServlet</servlet-name>
           <url-pattern>/</url-pattern>
34
       </servlet-mapping>
36
       <!--编码过滤器filter-->
       <filter>
38
           <filter-name>characterEncoding</filter-name>
39
           <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class</pre>
40
           <!--设置编码格式-->
41
           <init-param>
42
43
               <param-name>encoding</param-name>
```

```
</init-param>
45
           <!--->
46
           <init-param>
47
48
                <param-name>forceEncoding</param-name>
49
                <param-value>true</param-value>
            </init-param>
       </filter>
       <filter-mapping>
53
            <filter-name>characterEncoding</filter-name>
           <servlet-name>dispatcherServlet</servlet-name>
       </filter-mapping>
56
       <!-- 支持rest的过滤器-->
       <filter>
58
59
            <filter-name>hiddenHttpMethod</filter-name>
60
            <filter-class>org.springframework.web.filter.HiddenHttpMethodFilter</filter-class</pre>
       </filter>
61
       <filter-mapping>
62
            <filter-name>hiddenHttpMethod</filter-name>
63
            <servlet-name>dispatcherServlet</servlet-name>
64
       </filter-mapping>
65
   </web-app>
67
```

springmvc.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
   <beans xmlns="http://www.springframework.org/schema/beans"</pre>
3
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          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.springf
6
       <!--springmvc只扫描控制器-->
8
       <context:component-scan base-package="cn.tulingxueyuan" use-default-filters="false">
9
           <context:include-filter type="annotation" expression="org.springframework.stereory"</pre>
       </context:component-scan>
       <!--静态资源的扫描-->
       <mvc:default-servlet-handler></mvc:default-servlet-handler>
       <!--动态资源的扫描-->
14
```

spring-core.xml

```
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
                           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                           xmlns:context="http://www.springframework.org/schema/context" xmlns:tx="http://www
                           xmlns:aop="http://www.springframework.org/schema/aop" xmlns:mybatis="http://mybati
                           xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans ht
                   <!--扫描所有除了controller包的其他包-->
                    <context:component-scan base-package="cn.tulingxueyuan">
                              <context:exclude-filter type="annotation" expression="org.springframework.stereorgetime">
                    </context:component-scan>
14
                   <context:property-placeholder location="classpath:db.properties"></context:property-</pre>
                    <!--创建Druid数据源-->
                    <bean class="com.alibaba.druid.pool.DruidDataSource" id="dataSource">
                              cproperty name="username" value="${mysql.username}"></property>
                              cproperty name="password" value="${mysql.password}"></property>
                              cproperty name="url" value="${mysql.url}"></property>
                              cproperty name="driverClassName" value="${mysql.driverClassName}">
                    </bean>
                    <bean class="org.springframework.jdbc.datasource.DataSourceTransactionManager" id="to"</pre>
                              cproperty name="dataSource" ref="dataSource">
                    </bean>
```

```
<tx:annotation-driven transaction-manager="transactionManager"></tx:annotation-driver
34
      <aop:config>
          <aop:pointcut id="transactionCut" expression="execution(* cn.tulingxueyuan.servi</pre>
      </aop:config>
      <tx:advice id="advice" transaction-manager="transactionManager">
          <tx:attributes>
              <tx:method name="add*"/>
              <tx:method name="update*"/>
              <tx:method name="delete*"/>
              <tx:method name="get*" read-only="true" propagation="SUPPORTS"></tx:method>
              <tx:method name="query*" read-only="true"></tx:method>
          </tx:attributes>
      </tx:advice>
      <!--SqlSessionFactory-->
      <bean class="org.mybatis.spring.SqlSessionFactoryBean" id="sqlSessionFactory">
          cproperty name="dataSource" ref="dataSource"></property>
          <property name="mapperLocations" value="classpath:cn/tulingxueyuan/mapper/*.xml"</pre>
      </bean>
      <mybatis:scan base-package="cn.tulingxueyuan.mapper"></mybatis:scan>
  </beans>
```

mybatis-config.xml

```
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <!DOCTYPE configuration</pre>
```

```
"http://mybatis.org/dtd/mybatis-3-config.dtd">
  <!--就是DOCTYPE后面对应的根节点-->
  <configuration>
7
8
      <!--mybatis的设置选项 可以改变mybatis运行时行为-->
9
      <settings>
10
          <setting name="mapUnderscoreToCamelCase" value="true"/>
11
      </settings>
12
13
      <!--类型别名可为 Java 类型设置一个缩写名字。 它仅用于 XML 配置, 意在降低冗余的全限定类名书写
14
      <typeAliases>
15
16
          <package name="cn.tulingxueyuan.pojo"/>
      </typeAliases>
17
18
19 </configuration>
```

db.properties

```
mysql.username = root
mysql.password=123456
mysql.url=jdbc:mysql://localhost:3306/mybatis
mysql.driverClassName=com.mysql.jdbc.Driver
```

生成 pojo\mapper接口\mapper映射文件

TestController.java

```
1
2 /***
3 * @Author 徐庶 QQ:1092002729
4 * @Slogan 致敬大师, 致敬未来的你
5 */
6 @RestController
7 public class EmpController {
8
9
10 @Autowired
11 IEmpService empService;
```

```
12
13     @RequestMapping("test")
14     public List<Emp> test(){
15         List<Emp> emps = empService.selectEmp();
16         return emps;
17     }
18 }
```