



链滴

最新 Springboot + Dubbo 分布式服务搭建

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摘要:

本文中涉及的代码在 github 均可找到 [https://github.com/G-](https://github.com/G-little/priest)

[little/priest](#), 本人从最早的dubbo项目开源, 便一直是dubbo的忠实粉丝, 后来dubbo项目被apach作为顶级开源项目引入也是欢欣鼓舞, 作为忠实粉丝也希望为dubbo的推广尽一份绵薄之力。

dubbo 作为分布式系统的教科书式开源项目, 独立使用起来是非常简单的, 但在与新版的springboot及其他开源项目的整合使用过程中, 因为不同版本开源项目的兼容问题, 还是会产生各种匪夷所思的题。作为开发界的老司机有时也被这些问题折磨的焦头烂额。本文将最新版dubbo与springboot, myatis 构建分布式项目的过程详细记录, 希望能将大家从项目构建过程的版本坑中解救出来。

另外也把自己开源的良心项目诚心推荐给大家 [priest](#),

整个项目采用最新版springboot+dubbo+mybatis3+springdata-redis 架构, 将传统的rest接口开, 用户token认证, 及管理后台项目打包开源, 所有代码均可通过插件自动生成, 将开发人员从996加班节奏中解救出来。开源不易, 感兴趣的同学不妨留下你的小心心 🍀heart 。

概述

写程序我想最讲究的就是知其然, 知其所以然, 提起项目整合, 首先不得不说的就是dubbo的设计架。

<center>

![image.png](https://b3logfile.com/file/2019/04/image-de29c20e.png)

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首先我们看一下dubbo 的调用流程这里主要涉及4个模块:

- Registry: 注册中心, dubbo的服务注册, 服务发现均通过该服务作为桥梁。

- Provider: 服务提供者, 开发者实现的具体接口逻辑
- Consumer: 消费者, Provider 接口的订阅方
- Monitor: dubbo服务的调用次数, 调用时间监控中心。

从图中我们可以了解到整个RPC服务调用过程为:

1. 服务提供者将服务注册到服务中心
2. 消费者在注册中心中订阅服务
3. 消费者调用已经在注册中心注册的服务

项目构建

一 基础服务

透过dubbo的架构我们可以梳理出整个项目依赖的基础服务和技术

- dubbo 分布式服务
- spring-boot 基于spring的依赖管理
- jdk 1.8
- zookeeper dubbo 依赖的注册中心
- mybatis mysql orm 框架
- mysql 数据库

二 项目结构规划

一个好的项目规划, 一定要考虑到项目的层次划分明确, 未来扩展, 开发敏捷等等方面。对于spring oot+dubbo 的项目特点我们不难想到, web 项目

需要远程调用dubbo 分布式服务, dubbo 项目需对外提供 api 服务, 因此我们得出如下项目结构:

- 将dubbo 项目分为 dubbo-service, 和dubbo-api 部分, 方便项目依赖和调用。
- dao 层逻辑的独立性, 我们将dao 层单独拆分项目 (清晰而已, 不必要)
- web 层负责对代码参数的校验及dubbo 层业务逻辑的对外输出单独一个项目
- dubbo 项目代码的扩展项目
- 项目间公共代码项目

最终得到项目结构如下:

```

├── dubbo           // dubbo 打包部署
│   ├── assembly  // dubbo assembly 打包配置
│   └── bin        // dubbo 启动相关脚本
├── dubbo-extend   // dubbo 项目扩展, 可基于dubbo spi机制, 对dubbo 进行扩展
│   └── src
├── plugin-test    // 插件测试项目, 用于代码生成插件的测试(作者开源项目, 普通项目构建以忽略)
│   └── src
└── priest-common  // 项目共用代码

```

```

├── src
├── priest-common-web // web 项目共用代码
├── src
├── priest-demo // demo 项目
├── priest-demo-api // demo api 项目
├── priest-demo-dao // demo dao 项目
├── priest-demo-http // demo http 项目
├── priest-demo-service //demo service 项目
└── priest-generator // 代码生成插件 (作者开源项目, 普通项目构建可以忽略)

```

三 父项目pom配置说明

maven 的父子项目与java 中的继承关系非常的相似，子项目继承父项目的属性，依赖版本，插件配等，又可以根据子项目的特点和需求，重写项目配置。总结来说父项目的职责如下：

- **全局版本控制**，对于经常出现版本冲突问题的童鞋这一点至关重要，将所有项目版本的控制全部交父项目控制，当项目出现版本冲突问题时，父级项目便可通过依赖的全局版本控制，轻松解决依赖冲突。
- **项目公共properties配置** 例如jdk 最低版本,项目源代码编码格式等。
- **多环境 profile 切换**，例如开发环境，线上环境不同的注册中心配置，redis 配置
- **repositories 私有仓库配置**，多人协同开发，api 打包发布私有仓库
- **插件管理** 类似版本依赖

下面粘贴顶级项目的pom 配置(含注释):

```

<?xml version="1.0"?>
<project
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd
maven-4.0.0.xsd"
  xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLS
hema-instance">

  <modelVersion>4.0.0</modelVersion>
  <groupId>com.little.g</groupId>
  <artifactId>priest</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>pom</packaging>
  <name>priest</name>
  <url>http://maven.apache.org</url>
  <modules>
    <!-- 项目模块管理 -->
    <module>dubbo-extend</module>
    <module>priest-demo</module>
    <module>priest-common</module>
    <module>priest-common-web</module>
    <module>priest-generator</module>
    <module>plugin-test</module>

```

```

</modules>

  <!-- 全局属性配置 -->
<properties>
  <failOnMissingWebXml>false</failOnMissingWebXml>
  <resource.delimiter>${}</resource.delimiter>
  <java.version>1.8</java.version>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <mysql-connector-java.version>8.0.13</mysql-connector-java.version>
  <tk.mapper.version>4.1.5</tk.mapper.version>
  <dubbo.version>2.7.0</dubbo.version>
</properties>
<!-- 打包配置信息 -->
<profiles>
  <profile>
    <!-- 开发环境 -->
    <id>develop</id>
    <!-- 默认 -->
    <activation>
      <activeByDefault>true</activeByDefault>
    </activation>
    <properties>
      <!-- 日志 -->
      <priest.log.level>DEBUG</priest.log.level>
      <priest.log.path>/data/logs</priest.log.path>
      <!--打包编码 -->
      <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
      <priest.dubbo.zk.url>zookeeper://127.0.0.1:2181</priest.dubbo.zk.url>
      <priest.redis.nodes>127.0.0.1:6379</priest.redis.nodes>
      <priest.redis.password>123456</priest.redis.password>
      <priest.online>>false</priest.online>
    </properties>
  </profile>

  <profile>
    <!-- 线上环境 -->
    <id>online</id>
    <activation>
      <activeByDefault>>false</activeByDefault>
    </activation>

    <properties>

      <!-- 日志 -->
      <priest.log.level>DEBUG</priest.log.level>
      <priest.log.path>/data/logs</priest.log.path>
      <!--打包编码 -->
      <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
      <priest.dubbo.zk.url>zookeeper://192.168.0.195:2181</priest.dubbo.zk.url>
    </properties>
  </profile>

```

```

</profiles>

<!--开发者信息-->
<developers>
  <developer>
    <name>llg.java</name>
    <id>ligang</id>
    <email>llg.java@gmail.com</email>
    <organization>xiaogang.org.cn</organization>
    <roles>
      <role>Java Developer</role>
    </roles>
  </developer>
</developers>

<!-- <distributionManagement>

  <repository>
    <id>nexus-releases</id>
    <name>Nexus Release Repository</name>
    <url>http://nexus.shuzijiayuan.com/content/repositories/releases/</url>
  </repository>
  <snapshotRepository>
    <id>nexus-snapshots</id>
    <name>Nexus Snapshot Repository</name>
    <url>http://nexus.shuzijiayuan.com/content/repositories/snapshots/</url>
  </snapshotRepository>
</distributionManagement> -->

<!-- 仓库配置 -->
<repositories>
  <repository>
    <id>apache.snapshots.https</id>
    <name>Apache Development Snapshot Repository</name>
    <url>https://repository.apache.org/content/repositories/snapshots</url>
    <releases>
      <enabled>>false</enabled>
    </releases>
    <snapshots>
      <enabled>>true</enabled>
    </snapshots>
  </repository>
</repositories>

<!-- 依赖管理 -->
<dependencyManagement>
  <dependencies>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-parent</artifactId>
      <version>2.1.3.RELEASE</version>
      <type>pom</type>

```

```
<scope>import</scope>  
</dependency>
```

```
<!--本系统依赖管理 start-->
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-admin-common</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-admin-api</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-admin-dao</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-user-token</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-common</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-user-api</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>priest-user-dao</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>  
  <groupId>com.little.g</groupId>  
  <artifactId>dubbo-extend</artifactId>  
  <version>0.0.1-SNAPSHOT</version>  
</dependency>
```

```
<dependency>
  <groupId>com.little.g</groupId>
  <artifactId>priest-common-web</artifactId>
  <version>0.0.1-SNAPSHOT</version>
</dependency>

<dependency>
  <groupId>com.little.g</groupId>
  <artifactId>priest-demo-api</artifactId>
  <version>0.0.1-SNAPSHOT</version>
</dependency>

<dependency>
  <groupId>com.little.g</groupId>
  <artifactId>priest-demo-dao</artifactId>
  <version>0.0.1-SNAPSHOT</version>
</dependency>
<!--本系统依赖管理 end-->

<dependency>
  <groupId>com.github.qcloudsms</groupId>
  <artifactId>qcloudsms</artifactId>
  <version>1.0.5</version>
</dependency>

<dependency>
  <groupId>commons-fileupload</groupId>
  <artifactId>commons-fileupload</artifactId>
  <version>[1.3.3]</version>
</dependency>

<dependency>
  <groupId>javax.servlet</groupId>
  <artifactId>servlet-api</artifactId>
  <version>2.5</version>
  <scope>provided</scope>
</dependency>

<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>
  <version>[2.9.8,)</version>
</dependency>

<dependency>
  <groupId>com.fasterxml.jackson.module</groupId>
  <artifactId>jackson-module-afterburner</artifactId>
  <version>2.9.6</version>
</dependency>
```



```
<dependency>
  <groupId>org.reflections</groupId>
  <artifactId>reflections</artifactId>
  <version>0.9.10</version>
</dependency>

<dependency>
  <groupId>org.jodd</groupId>
  <artifactId>jodd-props</artifactId>
  <version>3.6.1</version>
</dependency>

<dependency>
  <groupId>com.github.pagehelper</groupId>
  <artifactId>pagehelper</artifactId>
  <version>RELEASE</version>
</dependency>

<dependency>
  <groupId>joda-time</groupId>
  <artifactId>joda-time</artifactId>
  <version>RELEASE</version>
</dependency>

<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-freemarker</artifactId>
  <version>2.1.3.RELEASE</version>
</dependency>

<!-- Apache Dubbo -->

<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-framework-bom</artifactId>
  <version>5.1.5.RELEASE</version>
  <type>pom</type>
  <scope>import</scope>
</dependency>

<dependency>
  <groupId>org.apache.dubbo</groupId>
  <artifactId>dubbo-dependencies-bom</artifactId>
  <version>${dubbo.version}</version>
  <type>pom</type>
  <scope>import</scope>
</dependency>

<dependency>
  <groupId>org.apache.dubbo</groupId>
```

```
<artifactId>dubbo</artifactId>
<version>${dubbo.version}</version>
<exclusions>
  <exclusion>
    <groupId>org.springframework</groupId>
    <artifactId>spring</artifactId>
  </exclusion>
  <exclusion>
    <groupId>org.springframework</groupId>
    <artifactId>spring-context</artifactId>
  </exclusion>
  <exclusion>
    <groupId>javax.servlet</groupId>
    <artifactId>servlet-api</artifactId>
  </exclusion>
  <exclusion>
    <groupId>log4j</groupId>
    <artifactId>log4j</artifactId>
  </exclusion>
</exclusions>
</dependency>
```

```
<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
  <version>20.0</version>
</dependency>
```

```
<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-lang3</artifactId>
  <version>3.8.1</version>
</dependency>
```

```
<dependency>
  <groupId>commons-lang</groupId>
  <artifactId>commons-lang</artifactId>
  <version>2.6</version>
</dependency>
```

```
<dependency>
  <groupId>javax.validation</groupId>
  <artifactId>validation-api</artifactId>
  <version>2.0.1.Final</version>
</dependency>
```

```
<dependency>
  <groupId>org.hibernate</groupId>
  <artifactId>hibernate-validator</artifactId>
  <version>6.0.10.Final</version>
</dependency>
```

```
<dependency>
```

```
<groupId>org.mybatis.spring.boot</groupId>
<artifactId>mybatis-spring-boot-starter</artifactId>
<version>2.0.0</version>
</dependency>

<dependency>
<groupId>mysql</groupId>
<artifactId>mysql-connector-java</artifactId>
<version>${mysql-connector-java.version}</version>
</dependency>

<dependency>
<groupId>tk.mybatis</groupId>
<artifactId>mapper-spring-boot-starter</artifactId>
<version>2.1.5</version>
</dependency>

<dependency>
<groupId>tk.mybatis</groupId>
<artifactId>mapper</artifactId>
<version>${tk.mapper.version}</version>
</dependency>

<dependency>
<groupId>tk.mybatis</groupId>
<artifactId>mapper-generator</artifactId>
<version>1.1.5</version>
</dependency>

<dependency>
<groupId>com.alibaba</groupId>
<artifactId>druid</artifactId>
<version>1.1.10</version>
</dependency>

<dependency>
<groupId>com.googlecode.libphonenumber</groupId>
<artifactId>libphonenumber</artifactId>
<version>7.0.6</version>
</dependency>

<dependency>
<groupId>com.alibaba</groupId>
<artifactId>fastjson</artifactId>
<version>[1.2.31,)</version>
</dependency>
</dependencies>
</dependencyManagement>

<!-- 公共构建属性及插件配置 -->
<build>
<resources>
<resource>
```

```

        <directory>src/main/resources</directory>
        <filtering>true</filtering>
    </resource>
    <resource>
        <directory>src/main/conf</directory>
        <filtering>true</filtering>
        <targetPath>conf</targetPath>
    </resource>
</resources>

<plugins>
    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
    </plugin>
    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-jar-plugin</artifactId>
    </plugin>

    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-source-plugin</artifactId>
    </plugin>

    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-dependency-plugin</artifactId>
    </plugin>

    <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
    </plugin>
</plugins>

<!-- 插件版本管理 -->

<pluginManagement>
    <plugins>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.5</version>
            <configuration>
                <source>${java.version}</source>
                <target>${java.version}</target>
                <encoding>${project.build.sourceEncoding}</encoding>
            </configuration>
        </plugin>

        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-jar-plugin</artifactId>

```

```
<version>2.3.2</version>
<configuration>
  <archive>
    <index>true</index>
  </archive>
</configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>2.4</version>
  <executions>
    <execution>
      <id>attach-sources</id>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-dependency-plugin</artifactId>
  <version>2.10</version>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>2.19.1</version>
  <configuration>
    <skipTests>true</skipTests>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <version>2.5.3</version>
  <configuration>
    <autoVersionSubmodules>true</autoVersionSubmodules>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-assembly-plugin</artifactId>
  <version>2.6</version>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
```

```

        <artifactId>maven-deploy-plugin</artifactId>
        <version>2.8.2</version>
    </plugin>

    <plugin>
        <groupId>org.mybatis.generator</groupId>
        <artifactId>mybatis-generator-maven-plugin</artifactId>
        <version>1.3.7</version>
        <configuration>
            <verbose>true</verbose>
            <overwrite>true</overwrite>
            <configurationFile>${project.basedir}/src/test/resources/generatorConfig.xml
/configurationFile>
        </configuration>
        <dependencies>
            <dependency>
                <groupId>mysql</groupId>
                <artifactId>mysql-connector-java</artifactId>
                <version>${mysql-connector-java.version}</version>
            </dependency>
            <dependency>
                <groupId>tk.mybatis</groupId>
                <artifactId>mapper</artifactId>
                <version>${tk.mapper.version}</version>
            </dependency>
        </dependencies>
    </plugin>

    <plugin>
        <groupId>com.little.g</groupId>
        <artifactId>generator-maven-plugin</artifactId>
        <version>0.0.1-SNAPSHOT</version>

        <configuration>
            <configurationFile>${project.basedir}/src/main/conf/GenerateConfig.xml</con
figurationFile>
        </configuration>
    </plugin>

    <plugin>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-maven-plugin</artifactId>
        <version>2.1.3.RELEASE</version>
    </plugin>
</plugins>
</pluginManagement>
</build>

</project>

```

四 dao 项目配置

mybatis3 + mybatis-generator 组合可以称得上是 orm 界的瑞士军刀, mybatis 本身轻量, 灵活性能高但不具备敏捷开发的能力, mybatis-generator 插件则完美填补了 mybatis 本身的缺陷, 下让我们一睹他们的风采。

pom 依赖配置

没什么可说的直接贴带注释的pom配置:

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
MLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd
maven-4.0.0.xsd">
    <parent>
        <groupId>com.little.g</groupId>
        <artifactId>priest-demo</artifactId>
        <version>0.0.1-SNAPSHOT</version>
    </parent>
    <modelVersion>4.0.0</modelVersion>
    <artifactId>priest-demo-dao</artifactId>
    <packaging>jar</packaging>

    <name>priest-demo-dao</name>
    <url>http://maven.apache.org</url>

    <properties>
        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
        <project.basedir>${project.basedir}</project.basedir>
    </properties>

    <profiles>
        <profile>
            <!-- 开发环境 -->
            <id>develop</id>
            <!-- 默认 -->
            <activation>
                <activeByDefault>true</activeByDefault>
            </activation>
            <properties>
                <!-- 数据库配置 -->
                <priest.jdbc.driver>com.mysql.jdbc.Driver</priest.jdbc.driver>
                <priest.jdbc.url>jdbc:mysql://192.168.2.101:3306/little_g?useUnicode=true&ch
racterEncoding=UTF-8&autoReconnect=true</priest.jdbc.url>
                <priest.jdbc.username>priest</priest.jdbc.username>
                <priest.jdbc.password>priest</priest.jdbc.password>
            </properties>
        </profile>

        <profile>
            <!-- 线上环境 TODO -->
            <id>online</id>
            <activation>
                <activeByDefault>>false</activeByDefault>
            </activation>
        </profile>
    </profiles>
</project>
```

```

    <properties>
      <!-- 数据库 -->
      <priest.jdbc.driver>com.mysql.jdbc.Driver</priest.jdbc.driver>
      <priest.jdbc.url>jdbc:mysql://192.168.2.101:3306/little_g?useUnicode=true&characterEncoding=UTF-8&autoReconnect=true</priest.jdbc.url>
      <priest.jdbc.username>priest</priest.jdbc.username>
      <priest.jdbc.password>priest</priest.jdbc.password>
    </properties>
  </profile>
</profiles>

<dependencies>

  <dependency>
    <groupId>tk.mybatis</groupId>
    <artifactId>mapper-spring-boot-starter</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
  </dependency>

  <dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
  </dependency>
  <!-- 带监控的阿里数据库连接池 -->
  <dependency>
    <groupId>com.alibaba</groupId>
    <artifactId>druid</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-aspects</artifactId>
  </dependency>

</dependencies>

<build>
  <plugins>
    <plugin>
      <groupId>org.mybatis.generator</groupId>
      <artifactId>mybatis-generator-maven-plugin</artifactId>
      <configuration>
        <verbose>>true</verbose>
        <overwrite>>true</overwrite>
        <configurationFile>${project.basedir}/src/test/resources/generatorConfig.xml
      </configuration>
    </plugin>
  </plugins>
</build>

```



```

        <dependency>
            <groupId>mysql</groupId>
            <artifactId>mysql-connector-java</artifactId>
        </dependency>
        <dependency>
            <groupId>tk.mybatis</groupId>
            <artifactId>mapper</artifactId>
        </dependency>
    </dependencies>
</plugin>
</plugins>
</build>
</project>

```

spring 及 mybatis-generator 配置

为了让mybatis-generator 和 spring 的数据库连接配置能够共享，我们对数据库配置配置信息进行单独文件抽取 jdbc.properties

```

jdbc.driverClass=com.mysql.jdbc.Driver
jdbc.url=${priest.jdbc.url}
jdbc.user=${priest.jdbc.username}
jdbc.password=${priest.jdbc.password}

```

遵从dubbo 的默认配置规范，我们将所有的spring 配置文件放在

META-INF/spring 目录下，下面是 applicationContext-dao.xml 的配置：

```

<?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:tx="http://www.springframework.org/schema/tx"
    xmlns:context="http://www.springframework.org/schema/context"
    xsi:schemaLocation="http://www.springframework.org/schema/context http://www.spring
framework.org/schema/context/spring-context-3.0.xsd
    http://www.springframework.org/schema/beans http://www.springframework.org/schema
beans/spring-beans-3.0.xsd

    http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/
pring-tx-3.0.xsd">

    <context:property-placeholder order="21" location="classpath*:jdbc.properties" file-encod
ng="UTF-8" ignore-unresolvable="true"/>

    <bean id="dataSource" class="com.alibaba.druid.pool.DruidDataSource" init-method="init
destroy-method="close">
        <property name="url" value="${jdbc.url}" />
        <property name="username" value="${jdbc.user}" />
        <property name="password" value="${jdbc.password}" />
        <property name="filters" value="stat" />

```

```

<property name="maxActive" value="20" />
<property name="initialSize" value="1" />
<property name="maxWait" value="60000" />
<property name="minIdle" value="1" />
<property name="timeBetweenEvictionRunsMillis" value="60000" />
<property name="minEvictableIdleTimeMillis" value="300000" />
<property name="testWhileIdle" value="true" />
<property name="testOnBorrow" value="false" />
<property name="testOnReturn" value="false" />
<property name="poolPreparedStatements" value="true" />
<property name="maxOpenPreparedStatements" value="20" />

<property name="asyncInit" value="true" />
</bean>

<!-- transaction manager, use JtaTransactionManager for global tx -->
<bean id="transactionManager"
    class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
    <property name="dataSource" ref="dataSource" />
</bean>

<!--事务模板 -->
<bean id="transactionTemplate"
    class="org.springframework.transaction.support.TransactionTemplate">
    <property name="transactionManager" ref="transactionManager" />
    <!--ISOLATION_DEFAULT 表示由使用的数据库决定 -->
    <property name="isolationLevelName" value="ISOLATION_READ_COMMITTED"/>
    <property name="propagationBehaviorName" value="PROPAGATION_REQUIRED"/>
    <!-- <property name="timeout" value="30"/> -->
</bean>

<!-- enable autowire -->
<context:annotation-config/>
<!-- enable transaction demarcation with annotations -->
<tx:annotation-driven mode="aspectj" transaction-manager="transactionManager" />

<!-- define the SqlSessionFactory -->
<bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
    <property name="dataSource" ref="dataSource" />
    <!--要映射类的包路径，即POJO对象的路径-->
    <property name="typeAliasesPackage" value="com.little.g.*.model" />
    <!--扫描mapper文件，否则如果Mapper接口文件改名的话，就会出现找不到对应的Mapper
    方法的错误-->
    <property name="mapperLocations" value="classpath*:com/little/g/*/mapper/*.xml"/>
</bean>

<bean id="sqlSessionTemplate" class="org.mybatis.spring.SqlSessionTemplate">
    <constructor-arg index="0" ref="sqlSessionFactory"></constructor-arg>
</bean>

<!-- scan for mappers and let them be autowired -->
<bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
    <!--扫描Mapper类并使它们自动装载-->
    <property name="basePackage" value="com.little.g.**.mapper" />

```

```
</bean>
```

```
</beans>
```

mybatis-generator 代码生成配置generatorConfig.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE generatorConfiguration
  PUBLIC "-//mybatis.org//DTD MyBatis Generator Configuration 1.0//EN"
  "http://mybatis.org/dtd/mybatis-generator-config_1_0.dtd">

<generatorConfiguration>

  <properties url="file://${project.basedir}/target/classes/jdbc.properties"/>

  <!--<context id="Mysql" targetRuntime="MyBatis3Simple" defaultModelType="flat">-->

  <context id="DB2Tables" targetRuntime="MyBatis3">

    <!-- 自动识别数据库关键字, 默认false -->
    <property name="autoDelimitKeywords" value="true" />
    <!--可以使用`包括字段名, 避免字段名与sql保留字冲突报错 -->
    <property name="beginningDelimiter" value="`" />
    <property name="endingDelimiter" value="`" />

    <plugin type="org.mybatis.generator.plugins.SerializablePlugin"></plugin>
    <plugin type="org.mybatis.generator.plugins.CaseInsensitiveLikePlugin"></plugin>
    <!-- caseSensitive默认false, 当数据库表名区分大小写时, 可以将该属性设置为true -->
    <!-- 支持该模式
    <plugin type="tk.mybatis.mapper.generator.MapperPlugin">
      <property name="mappers" value="tk.mybatis.mapper.common.Mapper"/>
      <property name="caseSensitive" value="true"/>
    </plugin>
    -->
    <commentGenerator>
      <property name="suppressDate" value="true" />
      <property name="suppressAllComments" value="true" />
    </commentGenerator>
    <jdbcConnection driverClass="${jdbc.driverClass}"
      connectionURL="${jdbc.url}"
      userId="${jdbc.user}"
      password="${jdbc.password}">
      <property name="nullCatalogMeansCurrent" value="true" />
    </jdbcConnection>

    <javaTypeResolver>
      <property name="forceBigDecimals" value="false" />
    </javaTypeResolver>

    <javaModelGenerator targetPackage="com.little.g.demo.model"
      targetProject="${project.basedir}/src/main/java">
      <property name="enableSubPackages" value="true" />
```

```

        <property name="trimStrings" value="true" />
    </javaModelGenerator>

    <sqlMapGenerator targetPackage="com.little.g.demo.mapper"
        targetProject="${project.basedir}/src/main/resources">
        <property name="enableSubPackages" value="true" />
    </sqlMapGenerator>

    <javaClientGenerator type="XMLMAPPER"
        targetPackage="com.little.g.demo.mapper" targetProject="${project.basedir}
/src/main/java">
        <property name="enableSubPackages" value="true" />
    </javaClientGenerator>

    <table tableName="user">
        <generatedKey column="id" sqlStatement="JDBC"/>
    </table>

</context>
</generatorConfiguration>

```

数据库建表

demo 测试 User 表建表sql:

```

CREATE TABLE `user` (
  `id` int(11) unsigned NOT NULL AUTO_INCREMENT COMMENT '唯一标识',
  `my_name` varchar(30) COLLATE utf8mb4_unicode_ci DEFAULT NULL COMMENT '名字',
  `age` int(11) DEFAULT NULL COMMENT '年龄',
  `mobile` varchar(20) COLLATE utf8mb4_unicode_ci DEFAULT NULL COMMENT '手机号',
  `create_time` bigint(20) DEFAULT NULL COMMENT '创建时间',
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=25 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_
nicode_ci;

```

代码生成

命令行执行:

```

mvn clean install
cd priest/priest-demo/priest-demo-dao/
mvn mybatis-generator:generate

```

输出生成文件名即可运行代码测试了

dao 测试

创建测试代码，运行junit测试

```

package com.little.g.common.web;

import com.little.g.demo.mapper.UserMapper;
import com.little.g.demo.model.User;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.test.context.ContextConfiguration;
import org.springframework.test.context.junit4.SpringJUnit4ClassRunner;

import javax.annotation.Resource;

/**
 * Created by lengligang on 2019/3/9.
 */
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(locations = "classpath*/META-INF/spring/*.xml")
public class UserMapperTest {
    @Resource
    private UserMapper userMapper;

    @Test
    public void testAdd(){
        User user = new User();
        user.setMyName("张三");

        int r=userMapper.insert(user);

        Assert.assertTrue(r>0);
    }
}

```

五 api 项目配置

api 项目为web层 调用 dubbo 的接口项目即接口规范,依照项目分层的逻辑, dao 层的pojo 不可以被 api 依赖, api 层需要有自己的 pojo 即 dto:

创建dto

```

package com.little.g.demo.dto;

import java.io.Serializable;

public class UserDTO implements Serializable {
    private Integer id;
    private String myName;

    private Integer age;

    private String mobile;
    private Long createTime;

    private static final long serialVersionUID = 1L;
}

```

```
public Integer getId() {
    return id;
}

public void setId(Integer id) {
    this.id = id;
}

public String getMyName() {
    return myName;
}

public void setMyName(String myName) {
    this.myName = myName == null ? null : myName.trim();
}

public Integer getAge() {
    return age;
}

public void setAge(Integer age) {
    this.age = age;
}

public String getMobile() {
    return mobile;
}

public void setMobile(String mobile) {
    this.mobile = mobile == null ? null : mobile.trim();
}

public Long getCreateTime() {
    return createTime;
}

public void setCreateTime(Long createTime) {
    this.createTime = createTime;
}

}
```

创建 UserService

```
package com.little.g.demo.api;

import com.little.g.common.dto.ListResultDTO;
import com.little.g.common.params.TimeQueryParam;
import com.little.g.demo.dto.UserDTO;

/**
```

```

* Created by lengligang on 2019/3/9.
*/
public interface UserService {
    /**
     * 添加
     * @param entity
     * @return
     */
    boolean add(UserDTO entity);

    /**
     * 根据id获取
     * @param id
     * @return
     */
    UserDTO get(Integer id);

    /**
     * 更新
     * @param entity
     * @return
     */
    boolean update(UserDTO entity);

    /**
     * 删除
     * @param id
     * @return
     */
    boolean delete(Integer id);

    /**
     * 增量查询
     * @param param
     * @return
     */
    ListResultDTO<UserDTO> list(TimeQueryParam param);
}

```

六 service 项目配置

配置依赖

将 priest-demo-api ,priest-demo-dao 加入service 项目依赖最终pom.xml 配置如下：

```

<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://maven.ap
che.org/POM/4.0.0"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/mav
n-4.0.0.xsd">
<parent>

```

```
<groupId>com.little.g</groupId>
<artifactId>priest-demo</artifactId>
<version>0.0.1-SNAPSHOT</version>
</parent>
<modelVersion>4.0.0</modelVersion>
```

```
<artifactId>priest-demo-service</artifactId>
<packaging>jar</packaging>
```

```
<name>priest-demo-service</name>
<url>http://maven.apache.org</url>
```

```
<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>
```

```
<profiles>
```

```
<profile>
```

```
  <!-- 开发环境 -->
```

```
  <id>develop</id>
```

```
  <!-- 默认 -->
```

```
  <activation>
```

```
    <activeByDefault>true</activeByDefault>
```

```
  </activation>
```

```
  <properties>
```

```
  </properties>
```

```
</profile>
```

```
<profile>
```

```
  <!-- 线上环境 -->
```

```
  <id>online</id>
```

```
  <activation>
```

```
    <activeByDefault>>false</activeByDefault>
```

```
  </activation>
```

```
  <properties>
```

```
  </properties>
```

```
</profile>
```

```
</profiles>
```

```
<dependencies>
```

```
  <dependency>
```

```
    <groupId>org.mybatis.spring.boot</groupId>
```

```
    <artifactId>mybatis-spring-boot-starter</artifactId>
```

```
  </dependency>
```

```
  <dependency>
```

```
    <groupId>org.springframework.boot</groupId>
```



```
    <artifactId>spring-boot-devtools</artifactId>
    <scope>runtime</scope>
</dependency>
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
</dependency>

<!-- dubbo 依赖 -->

<dependency>
    <groupId>com.little.g</groupId>
    <artifactId>dubbo-extend</artifactId>
</dependency>

<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-core</artifactId>
</dependency>

<dependency>
    <groupId>org.apache.dubbo</groupId>
    <artifactId>dubbo</artifactId>
</dependency>
<dependency>
    <groupId>io.netty</groupId>
    <artifactId>netty-all</artifactId>
</dependency>
<dependency>
    <groupId>org.apache.curator</groupId>
    <artifactId>curator-framework</artifactId>
</dependency>
<dependency>
    <groupId>org.apache.curator</groupId>
    <artifactId>curator-recipes</artifactId>
</dependency>
<dependency>
    <groupId>org.apache.zookeeper</groupId>
    <artifactId>zookeeper</artifactId>
</dependency>
<!-- dubbo 依赖 -->

<dependency>
    <groupId>com.little.g</groupId>
    <artifactId>priest-demo-api</artifactId>
</dependency>

<dependency>
    <groupId>com.little.g</groupId>
    <artifactId>priest-demo-dao</artifactId>
</dependency>
```

```

</dependencies>

<build>
  <plugins>

    <!-- assembly 打包 maven dubbo 部署包配置 -->
    <plugin>
      <artifactId>maven-assembly-plugin</artifactId>
      <configuration>
        <finalName>${project.name}</finalName>
        <descriptor>${project.parent.parent.basedir}/dubbo/assembly/assembly.xml</descri
ptor>
      </configuration>
      <executions>
        <execution>
          <id>make-assembly</id>
          <phase>package</phase>
          <goals>
            <goal>single</goal>
          </goals>
        </execution>
      </executions>
    </plugin>

  </plugins>
</build>

</project>

```

spring 配置

config.properties 配置:

```

# 读取 parent zookeeper 配置
zookeeper.url=${priest.dubbo.zk.url}

```

META-INF/spring/spring-config.xml 配置:

```

<beans xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns="http://www.springframework.org/schema/beans" xmlns:tx="http://www.springfr
mework.org/schema/tx"
  xmlns:util="http://www.springframework.org/schema/util"
  xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springf
amework.org/schema/beans/spring-beans.xsd
  http://www.springframework.org/schema/context http://www.springframework.org/sch
ma/context/spring-context.xsd
  http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx
spring-tx.xsd
  http://www.springframework.org/schema/util http://www.springframework.org/schema/u
il/spring-util.xsd">

  <context:property-placeholder location="classpath:config.properties" ignore-unresolvable

```

```
"true"
        file-encoding="UTF-8" />
    <!-- service 自动扫描-->
    <context:component-scan base-package="com.little.g.**.service"/>

</beans>
```

userService 代码实现

```
package com.little.g.demo.service;

import com.little.g.common.dto.ListResultDTO;
import com.little.g.common.params.TimeQueryParam;
import com.little.g.demo.api.UserService;
import com.little.g.demo.dto.UserDTO;
import com.little.g.demo.mapper.UserMapper;
import com.little.g.demo.model.User;
import com.little.g.demo.model.UserExample;
import org.springframework.beans.BeanUtils;
import org.springframework.stereotype.Service;
import org.springframework.util.CollectionUtils;

import javax.annotation.Resource;
import java.util.List;
import java.util.stream.Collectors;

/**
 * Created by lengligang on 2019/3/9.
 */
@Service("userService")
public class UserServiceImpl implements UserService {
    @Resource
    private UserMapper userMapper;

    @Override
    public boolean add(UserDTO entity) {
        User user=new User();
        BeanUtils.copyProperties(entity,user);
        return userMapper.insertSelective(user)>0;
    }

    @Override
    public UserDTO get(Integer id) {
        User user=userMapper.selectByPrimaryKey(id);
        if(user == null){
            return null;
        }
        UserDTO dto=new UserDTO();
        BeanUtils.copyProperties(user,dto);
        return dto;
    }

    @Override
```

```

public boolean update(UserDTO entity) {
    if(entity.getId() == null) return false;
    User user=new User();
    BeanUtils.copyProperties(entity,user);
    return userMapper.updateByPrimaryKeySelective(user)>0;
}

@Override
public boolean delete(Integer id) {
    return userMapper.deleteByPrimaryKey(id)>0;
}

@Override
public ListResultDTO<UserDTO> list(TimeQueryParam param) {
    ListResultDTO<UserDTO> result=param.getResult(ListResultDTO.class);

    UserExample example = new UserExample();
    example.or().andCreateTimeLessThan(param.getLast());
    example.setOrderByClause(String.format("create_time desc limit %d",result.getLimit()));
    List<User> list= userMapper.selectByExample(example);
    if(CollectionUtils.isEmpty(list)){
        return result;
    }
    result.setLast(list.get(list.size()-1).getCreateTime());
    result.setList(list.stream().map(entity->{
        UserDTO dto=new UserDTO();
        BeanUtils.copyProperties(entity,dto);
        return dto;
    }).collect(Collectors.toList()));

    return result;
}
}
}

```

dubbo 服务配置

META-INF/spring/dubbo-config.xml:

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:dubbo="http://dubbo.apache.org/schema/dubbo"
    xmlns="http://www.springframework.org/schema/beans"
    xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springf
amework.org/schema/beans/spring-beans-2.5.xsd
    http://dubbo.apache.org/schema/dubbo http://dubbo.apache.org/schema/dubbo/dubb
.xsd">

    <dubbo:application name="com.little.g.demo" logger="slf4j"/>
    <dubbo:protocol name="dubbo"/>
    <dubbo:registry address="{zookeeper.url}"/>

```

```
<dubbo:service interface="com.little.g.demo.api.UserService" ref="userService"/>
```

```
</beans>
```

dubbo 启动测试

```
package com.little.g.demo;

import org.apache.dubbo.container.Main;

/**
 * Created by lengligang on 2019/3/9.
 */
public class TestDubbo {
    public static void main(String[] args) {
        Main.main(args);
    }
}
```

dubbo junit 测试

```
package com.little.g.demo.service;

import com.little.g.demo.api.UserService;
import com.little.g.demo.dto.UserDTO;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.test.context.ContextConfiguration;
import org.springframework.test.context.junit4.SpringJUnit4ClassRunner;

import javax.annotation.Resource;

/**
 * Created by lengligang on 2019/3/9.
 */
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(locations = "classpath*/META-INF/spring/*.xml")
public class UserServiceTest{
    @Resource
    private UserService userService;
    @Test
    public void testAdd(){
        UserDTO dto= new UserDTO();
        dto.setCreateTime(System.currentTimeMillis());
        Assert.assertTrue(userService.add(dto));
    }
}
```

七 web 项目配置

项目依赖配置

web 层增加 priest-demo-api 及dubbo依赖 pom.xml 配置如下

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/
MLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd
maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>com.little.g</groupId>
    <artifactId>priest-demo</artifactId>
    <version>0.0.1-SNAPSHOT</version>
  </parent>
  <groupId>com.little.g.demo</groupId>
  <artifactId>priest-demo-http</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>
  <name>priest-demo-http</name>
  <description>Demo project for Spring Boot</description>

  <properties>
    <java.version>1.8</java.version>
  </properties>

  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
      <scope>provided</scope>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-test</artifactId>
      <scope>test</scope>
    </dependency>

    <dependency>
      <groupId>org.apache.dubbo</groupId>
      <artifactId>dubbo</artifactId>
    </dependency>

    <dependency>
```

```

        <groupId>io.netty</groupId>
        <artifactId>netty-all</artifactId>
</dependency>
<dependency>
    <groupId>org.apache.curator</groupId>
    <artifactId>curator-framework</artifactId>
</dependency>
<dependency>
    <groupId>org.apache.curator</groupId>
    <artifactId>curator-recipes</artifactId>
</dependency>
<dependency>
    <groupId>org.apache.zookeeper</groupId>
    <artifactId>zookeeper</artifactId>
</dependency>

<dependency>
    <groupId>com.little.g</groupId>
    <artifactId>priest-common-web</artifactId>
</dependency>
<dependency>
    <groupId>com.little.g</groupId>
    <artifactId>priest-demo-api</artifactId>
</dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
            <executions>
                <execution>
                    <goals>
                        <goal>repackage</goal>
                    </goals>
                </execution>
            </executions>
        </plugin>
    </plugins>
</build>
</project>

```

demo springboot 启动类编写

```
package com.little.g.demo.web;
```

```
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.ComponentScan;
import org.springframework.web.servlet.config.annotation.EnableWebMvc;
```

```

@SpringBootApplication
public class PriestDemoHttpApplication {

    public static void main(String[] args) {
        SpringApplication.run(PriestDemoHttpApplication.class, args);
    }

}

```

springboot 配置

```
package com.little.g.common.web.config;
```

```

import com.little.g.common.web.exception.GlobalExceptionHandler;
import com.little.g.common.web.utils.ReloadableResourceBundleMessageSource;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.boot.web.servlet.error.ErrorAttributes;
import org.springframework.context.MessageSource;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.context.annotation.ImportResource;
import org.springframework.validation.beanvalidation.LocalValidatorFactoryBean;
import org.springframework.web.servlet.LocaleResolver;
import org.springframework.web.servlet.config.annotation.InterceptorRegistry;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
import org.springframework.web.servlet.i18n.LocaleChangeInterceptor;
import org.springframework.web.servlet.i18n.SessionLocaleResolver;

import java.util.Locale;

/**
 * Created by lengligang on 2019/3/12.
 */
@ImportResource(locations = {"classpath:META-INF/spring/dubbo-consume.xml"}) //dubbo
配置引用
@Configuration
public class AppConfig {
    /**
     * 国际化配置文件
     */
    @Value("${spring.messages.basename}")
    private String baseName;

    /**
     * 异常统一处理
     * @return
     */
    @Bean
    GlobalExceptionHandler exceptionHandler(){
        return new GlobalExceptionHandler();
    }
}

```



```

/**
 * 自定义 rest 协议格式
 * @return
 */
@Bean
public ErrorAttributes errorAttributes() {
    return new PriestErrorAttributes();
}

/**
 * 默认解析器 其中locale表示默认语言
 */
@Bean
public LocaleResolver localeResolver() {
    SessionLocaleResolver localeResolver = new SessionLocaleResolver();
    localeResolver.setDefaultLocale(Locale.CHINA);
    return localeResolver;
}

/**
 * 默认拦截器 其中lang表示切换语言的参数名
 */
@Bean
public WebMvcConfigurer localeInterceptor() {
    return new WebMvcConfigurer() {
        @Override
        public void addInterceptors(InterceptorRegistry registry) {
            LocaleChangeInterceptor localeInterceptor = new LocaleChangeInterceptor();
            localeInterceptor.setParamName("lang");
            registry.addInterceptor(localeInterceptor);
        }
    };
}

@Bean
public MessageSource messageSource(){
    ReloadableResourceBundleMessageSource messageSource=new ReloadableResourceBu
dleMessageSource();
    messageSource.setBasename(baseName);
    messageSource.setCacheSeconds(3600);
    return messageSource;
}

/**
 * 国际化配置
 * @return
 */
@Bean
public LocalValidatorFactoryBean getValidator() {
    LocalValidatorFactoryBean bean = new LocalValidatorFactoryBean();
    bean.setValidationMessageSource(messageSource());
    return bean;
}

```

```

@Bean
public MessageSourceUtil messageSourceUtil(){
    return new MessageSourceUtil();
}
}

```

application.properties 配置:

```

#启动端口
server.port=8888
#国际化
spring.messages.basename=classpath*:i18n/messages
# dubbo 注册中心
zookeeper.url=${priest.dubbo.zk.url}

```

dubbo 服务引用

META-INF/spring/dubbo-consume.xml:

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:dubbo="http://dubbo.apache.org/schema/dubbo"
    xmlns="http://www.springframework.org/schema/beans"
    xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springf
amework.org/schema/beans/spring-beans-2.5.xsd
    http://dubbo.apache.org/schema/dubbo http://dubbo.apache.org/schema/dubbo/dubb
.xsd">

    <dubbo:application name="com.little.g.demo.web" logger="slf4j"/>

    <dubbo:protocol name="dubbo"/>
    <dubbo:registry address="${zookeeper.url}"/>

    <dubbo:reference id="userService" interface="com.little.g.demo.api.UserService" />

</beans>

```

UserController.java 编写

```

package com.little.g.demo.web;

import com.little.g.common.ResultJson;
import com.little.g.common.dto.ListResultDTO;
import com.little.g.common.params.TimeQueryParam;
import com.little.g.demo.api.UserService;
import com.little.g.demo.dto.UserDTO;
import org.springframework.web.bind.annotation.RequestMapping;

```

```

import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;

import javax.annotation.Resource;
import javax.validation.Valid;

/**
 * Created by lengligang on 2019/3/12.
 */
@RequestMapping("/user")
@RestController
public class UserController {
    @Resource
    private UserService userService;

    @RequestMapping(value = "/add",method = RequestMethod.POST)
    public JsonResult add(@Valid UserDTO params){
        JsonResult r=new JsonResult();

        if(userService.add(params)){
            return r;
        }
        r.setC(JsonResult.SYSTEM_UNKNOWN_EXCEPTION);
        return r;
    }

    @RequestMapping(value = "/del",method = RequestMethod.GET)
    public JsonResult del(@RequestParam Integer id){
        JsonResult r=new JsonResult();
        if(userService.delete(id)){
            return r;
        }
        r.setC(JsonResult.SYSTEM_UNKNOWN_EXCEPTION);
        return r;
    }

    @RequestMapping(value = "/update",method = RequestMethod.POST)
    public JsonResult update(@Valid UserDTO params){
        JsonResult r=new JsonResult();
        if(userService.update(params)){
            return r;
        }
        r.setC(JsonResult.SYSTEM_UNKNOWN_EXCEPTION);
        return r;
    }

    @RequestMapping(value = "/list",method = RequestMethod.GET)
    public JsonResult list(@Valid TimeQueryParam params){
        JsonResult r=new JsonResult();
        ListResultDTO<UserDTO> list= userService.list(params);
        r.setData(list);
        return r;
    }
}

```

```
}  
}
```

八 测试

启动dubbo

TestDubbo main 方法启动 dubbo

spring-boot插件运行 spring-boot:run 启动web 项目

```
cd priest/priest-demo/priest-demo-web  
mvn spring-boot:run
```

相关链接

项目源代码 <https://github.com/G-little/priest>

[springboot] (<https://docs.spring.io/spring-boot/docs/2.1.4.RELEASE/reference/htmlsingle/>)

[dubbo](#)

[mybatis3](#)

[mybatis-generator](#)