

# 尚品汇商城

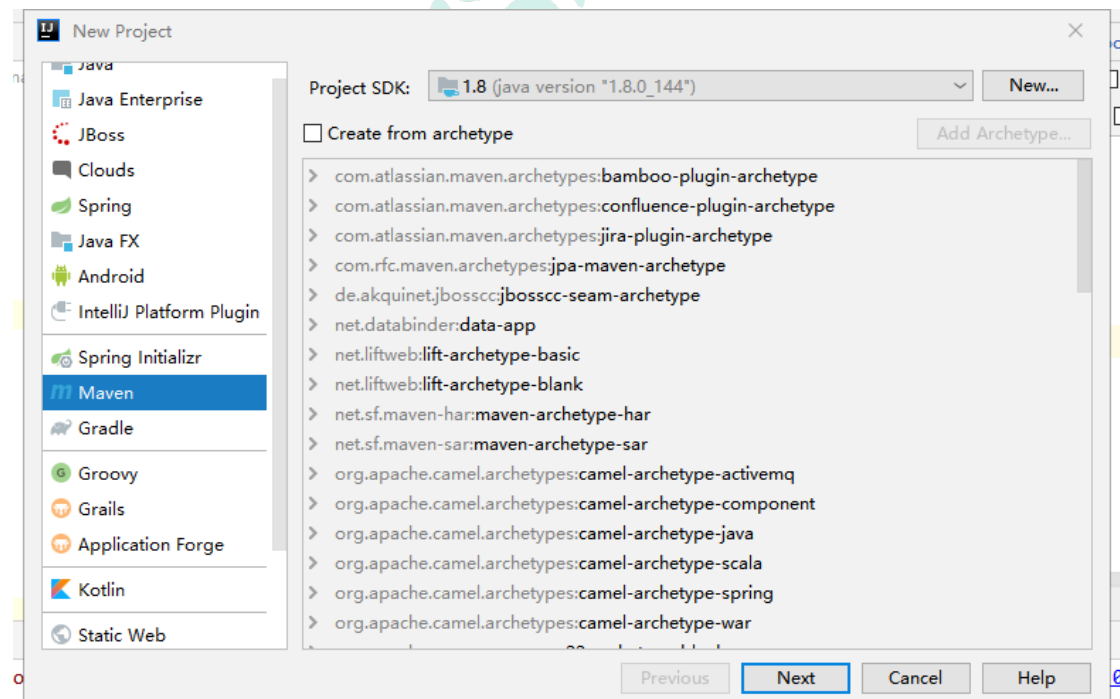
## 一、电商微服务模块搭建

创建工作目录 D:\gmallparent 不能有中文,不能有空格

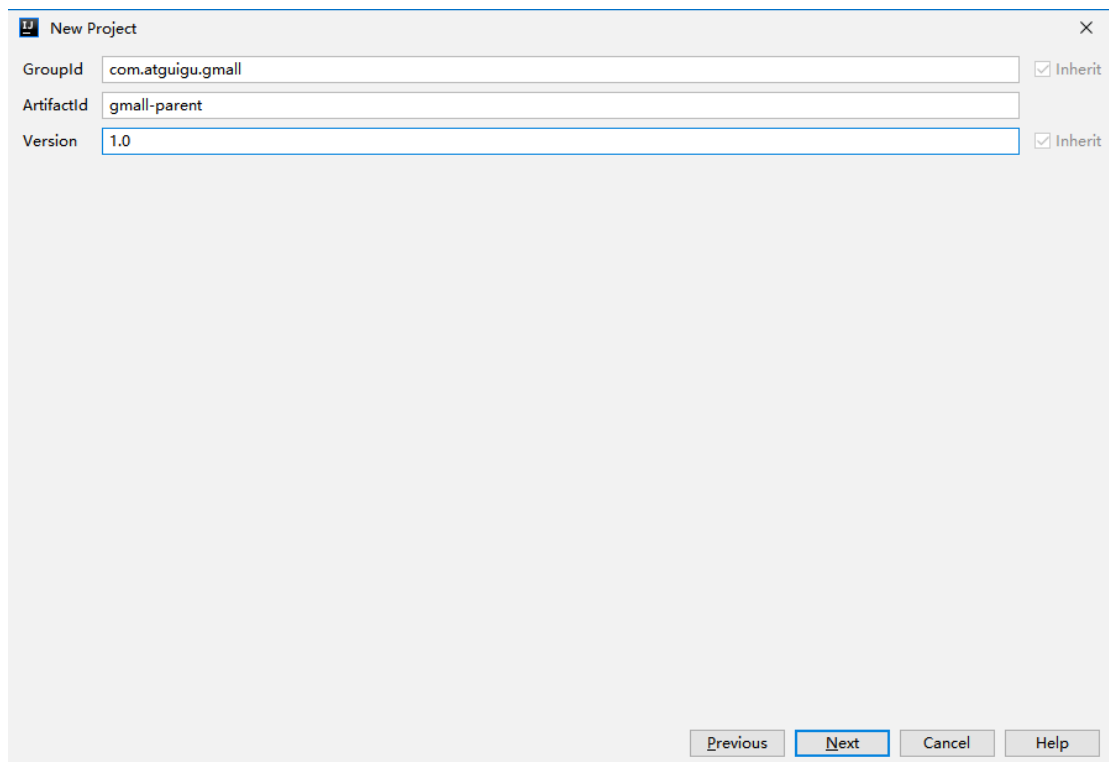
### 1.1 搭建电商父工程（gmallparent）

#### 1.1.1 搭建 gmall-parent

打开 idea，选择 File->New->Project,操作如下



选择下一步



New Project

GroupId:  ☒ Inherit

ArtifactId:

Version:  ☒ Inherit

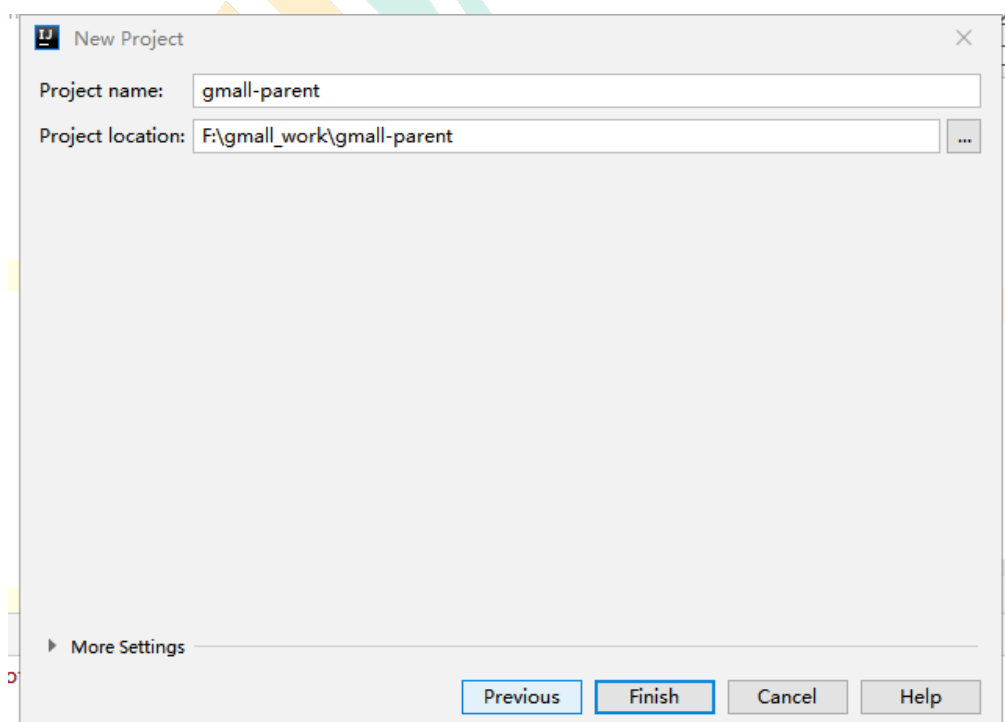
Previous Next Cancel Help

配置:

groupId: com.atguigu.gmall

artifactId: gmall-parent

选择下一步



New Project

Project name:

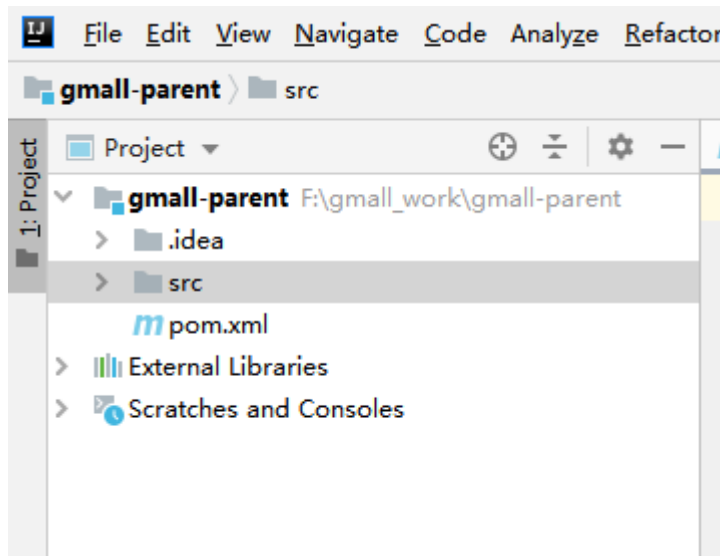
Project location:  ...

More Settings

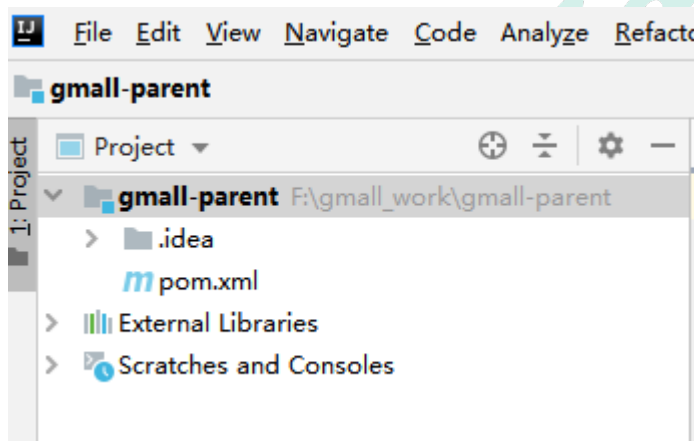
Previous Finish Cancel Help

完成

工程结构如下



由于这是一个父工程，删除 src 目录



## 1.1.2 修改配置 pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-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>
  <packaging>pom</packaging>
```

```
<!--引入 spring boot 父工程-->
<parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.3.6.RELEASE</version>
</parent>

<groupId>com.atguigu.gmall</groupId>
<artifactId>gmall-parent</artifactId>
<version>1.0</version>

<!--定义 jar 包的版本号-->
<properties>
    <java.version>1.8</java.version>
    <cloud.version>Hoxton.SR8</cloud.version>
    <alibaba.version>2.2.5.RELEASE</alibaba.version>
    <gmall.version>1.0</gmall.version>
    <mybatis-plus.version>3.4.1</mybatis-plus.version>
    <mysql.version>5.1.46</mysql.version>
    <swagger.version>2.7.0</swagger.version>
    <lombok.version>1.18.10</lombok.version>
    <fastjson.version>1.2.29</fastjson.version>
    <redisson.version>3.15.3</redisson.version>
    <pool2.version>2.6.0</pool2.version>
    <httpClient.version>4.5.13</httpClient.version>
</properties>

<!--配置 dependencyManagement 锁定依赖的版本 并不是实际的依赖。-->
<dependencyManagement>
    <dependencies>
        <dependency>
```

```
<groupId>org.springframework.cloud</groupId>
<artifactId>spring-cloud-dependencies</artifactId>
<version>${cloud.version}</version>
<type>pom</type>
<scope>import</scope>
</dependency>

<dependency>
    <groupId>com.alibaba.cloud</groupId>
    <artifactId>spring-cloud-alibaba-dependencies</artifactId>
    <version>${alibaba.version}</version>
    <type>pom</type>
    <scope>import</scope>
</dependency>

<!--mybatis-plus 持久层-->
<dependency>
    <groupId>com.baomidou</groupId>
    <artifactId>mybatis-plus-boot-starter</artifactId>
    <version>${mybatis-plus.version}</version>
</dependency>

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

<!--swagger-->
<dependency>
    <groupId>io.springfox</groupId>
```

```
<artifactId>springfox-swagger2</artifactId>
<version>${swagger.version}</version>
</dependency>

<!--swagger ui-->
<dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger-ui</artifactId>
    <version>${swagger.version}</version>
</dependency>

<dependency>
    <groupId>org.projectlombok</groupId>
    <artifactId>lombok</artifactId>
    <version>${lombok.version}</version>
</dependency>

<dependency>
    <groupId>com.alibaba</groupId>
    <artifactId>fastjson</artifactId>
    <version>${fastjson.version}</version>
</dependency>

<!-- redisson 分布式锁-->
<dependency>
    <groupId>org.redisson</groupId>
    <artifactId>redisson</artifactId>
    <version>${redisson.version}</version>
</dependency>

<!-- spring2.X 集成 redis 所需 common-pool2-->
<dependency>
    <groupId>org.apache.commons</groupId>
    <artifactId>commons-pool2</artifactId>
```

```
        <version>${pool2.version}</version>
      </dependency>
      <dependency>
        <groupId>org.apache.httpcomponents</groupId>
        <artifactId>httpclient</artifactId>
        <version>${httpclient.version}</version>
      </dependency>
    </dependencies>

  </dependencyManagement>
</project>
```

## 1.2 搭建 common 父模块

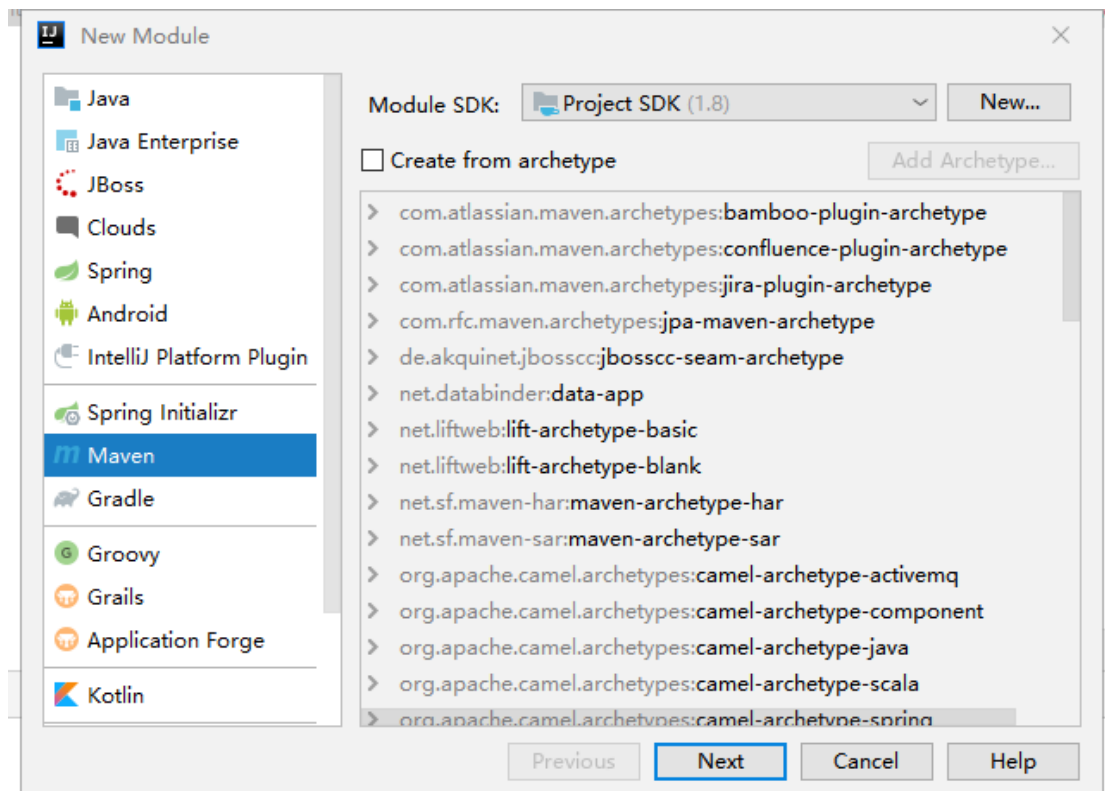
common：公共模块父节点

common-util：工具类模块，所有模块都可以依赖于它

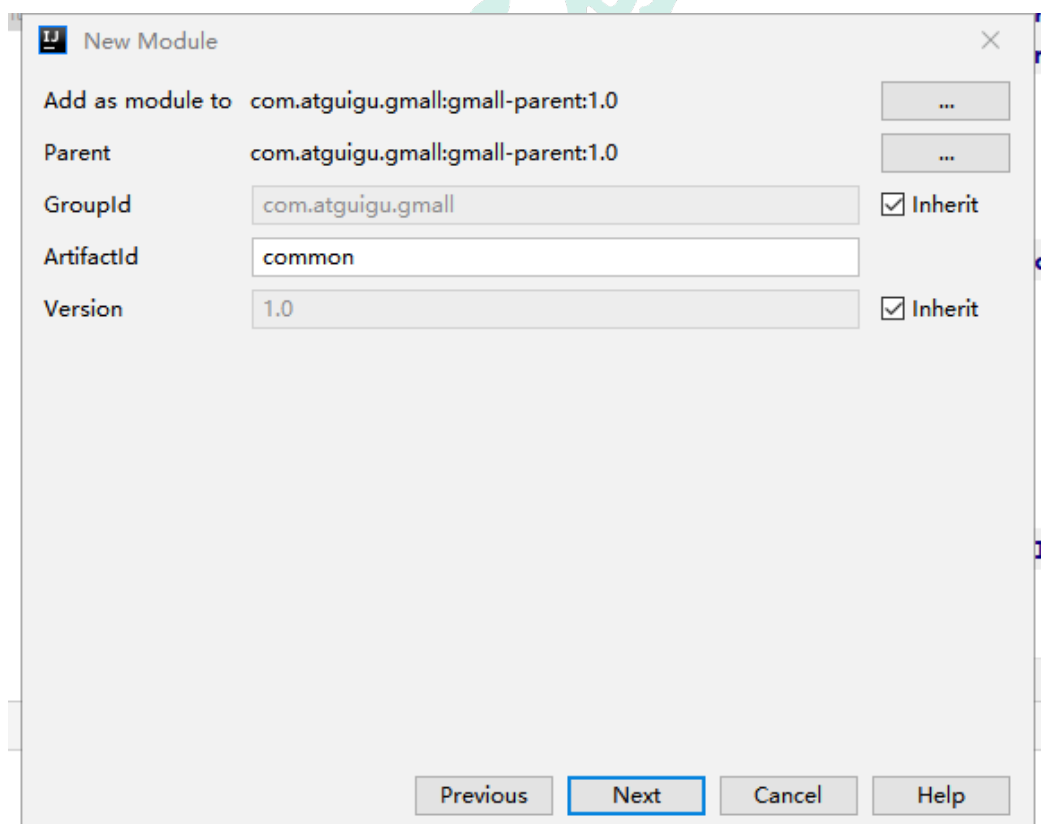
service-util：service 服务的工具包，包含 service 服务的公共配置类，所有 service 模块依赖于它

### 1.2.1 搭建 common

点击 gmall-parent，选择 New->Module,操作如下

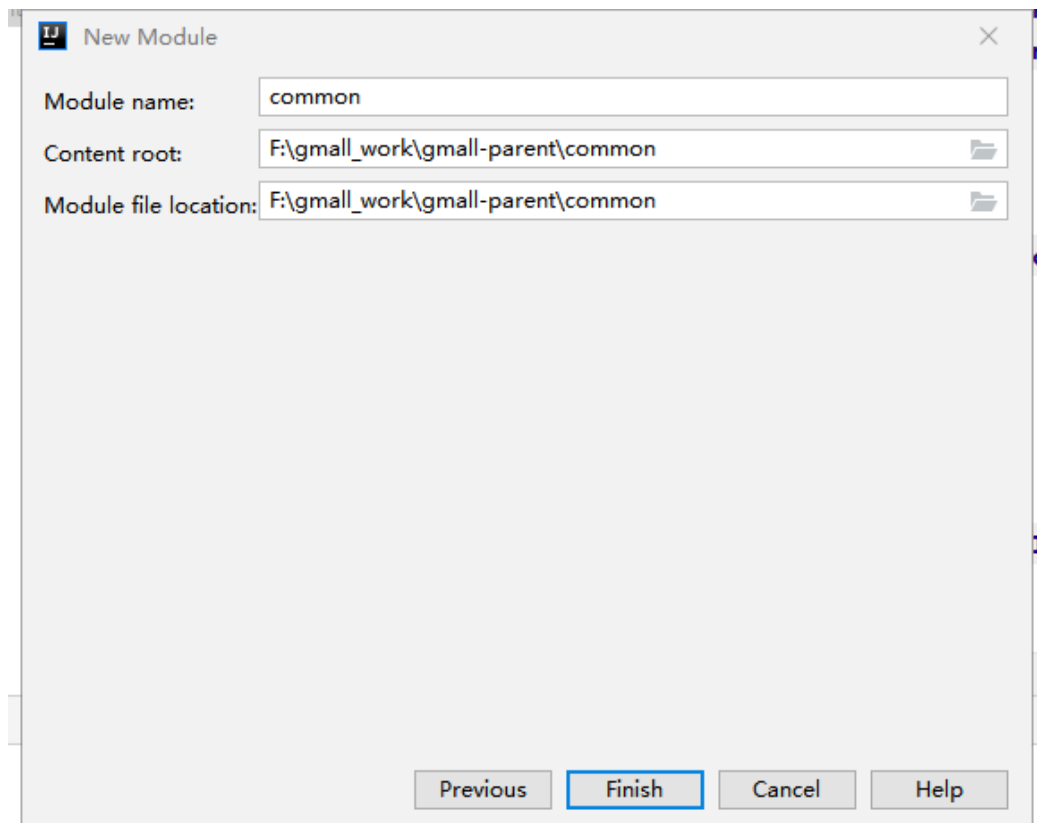


选择下一步

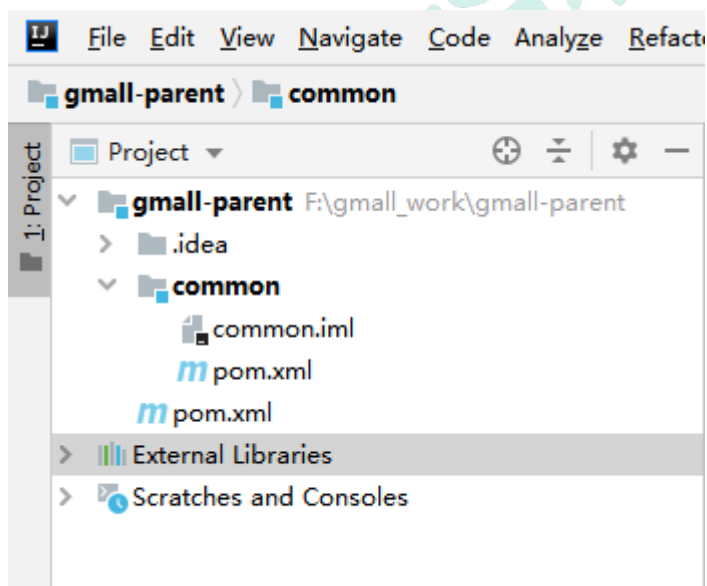


选择下一步





完成，删除 src 目录，结构如下



### 1.2.2 修改配置 pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
```

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <parent>
        <artifactId>gmall-parent</artifactId>
        <groupId>com.atguigu.gmall</groupId>
        <version>1.0</version>
    </parent>
    <modelVersion>4.0.0</modelVersion>

    <artifactId>common</artifactId>
    <packaging>pom</packaging>
    <version>1.0</version>

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

        <!--Lombok 用来简化实体类：需要安装 Lombok 插件-->
        <dependency>
            <groupId>org.projectlombok</groupId>
            <artifactId>lombok</artifactId>
        </dependency>

        <!--swagger-->
        <dependency>
            <groupId>io.springfox</groupId>
            <artifactId>springfox-swagger2</artifactId>
```

```
</dependency>

<dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger-ui</artifactId>
</dependency>

<!-- 用来转换 json 使用 {JavaObject - json | json - JavaObject}-->
<dependency>
    <groupId>com.alibaba</groupId>
    <artifactId>fastjson</artifactId>
</dependency>

<!-- 服务调用 feign -->
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-openfeign</artifactId>
    <scope>provided </scope>
</dependency>

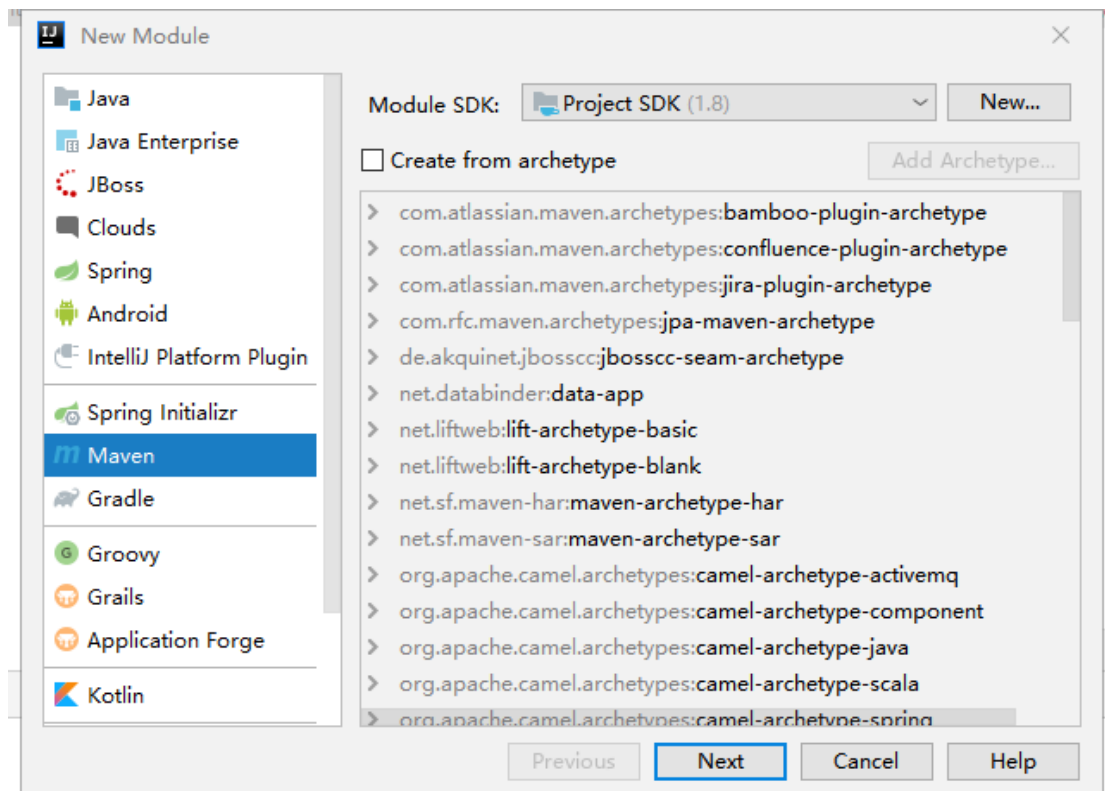
</dependencies>

</project>
```

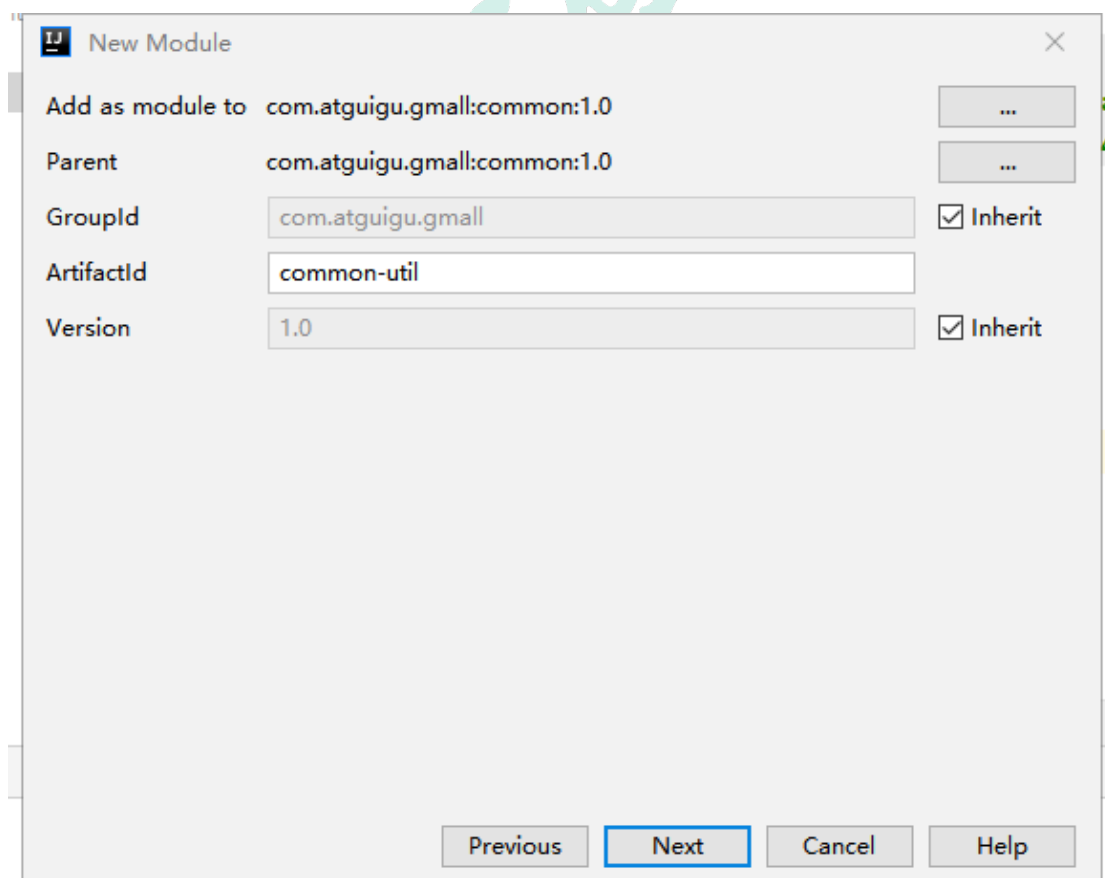
## 1.3 搭建 common-util 模块

### 1.3.1 搭建 common-util

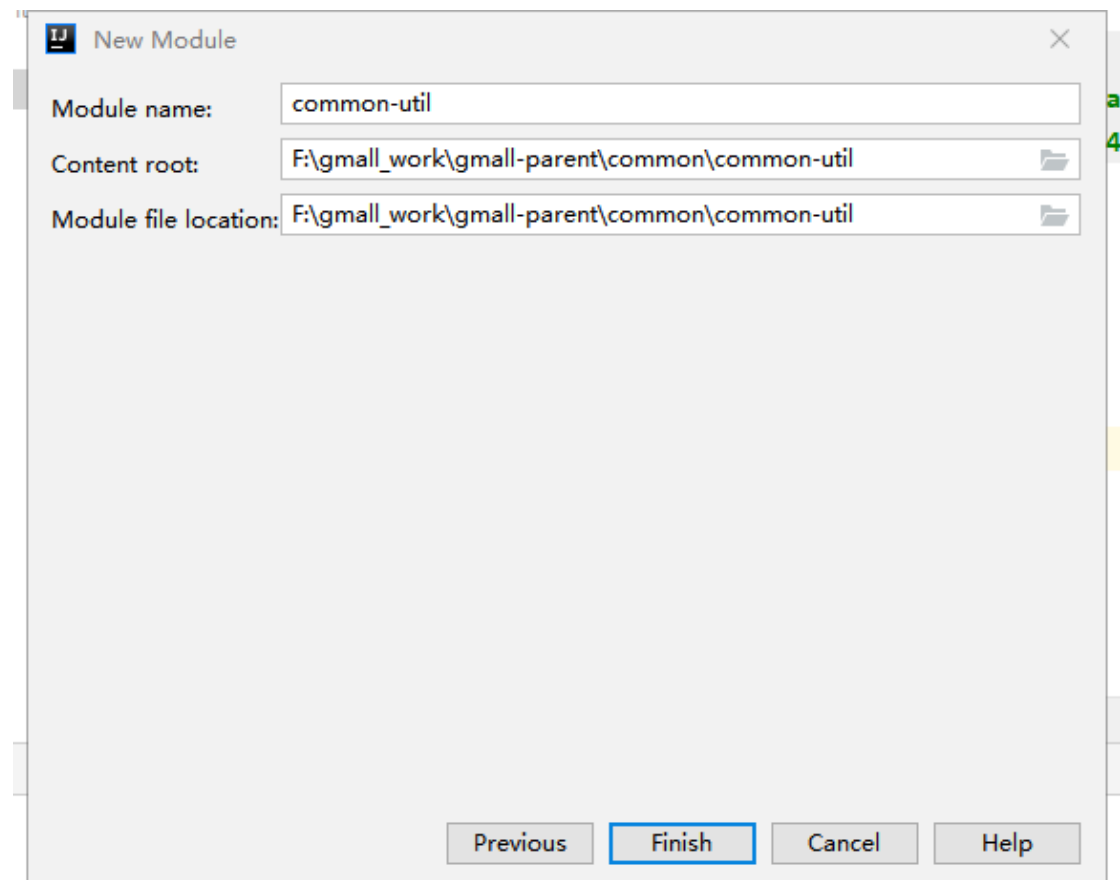
点击 common, 选择 New->Module,操作如下



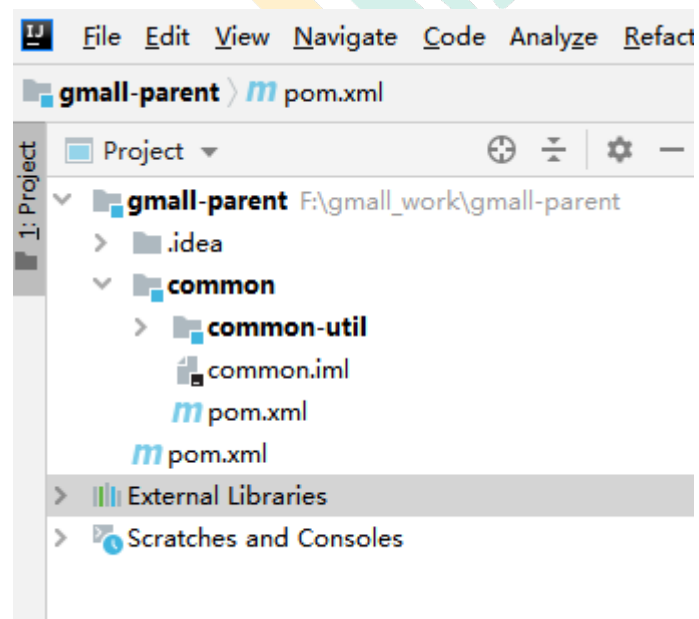
选择下一步



选择下一步



完成，结构如下



### 1.3.2 修改配置 pom.xml

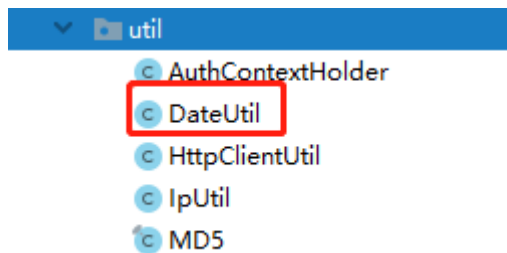
```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>com.atguigu.gmall</groupId>
    <artifactId>common</artifactId>
    <version>1.0</version>
  </parent>

  <artifactId>common-util</artifactId>
  <version>1.0</version>

  <packaging>jar</packaging>
  <name>common-util</name>
  <description>common-util</description>

  <dependencies>
    <dependency>
      <groupId>org.apache.httpcomponents</groupId>
      <artifactId>httpclient</artifactId>
    </dependency>
  </dependencies>
</project>
```

### 1.3.3 添加公共工具类



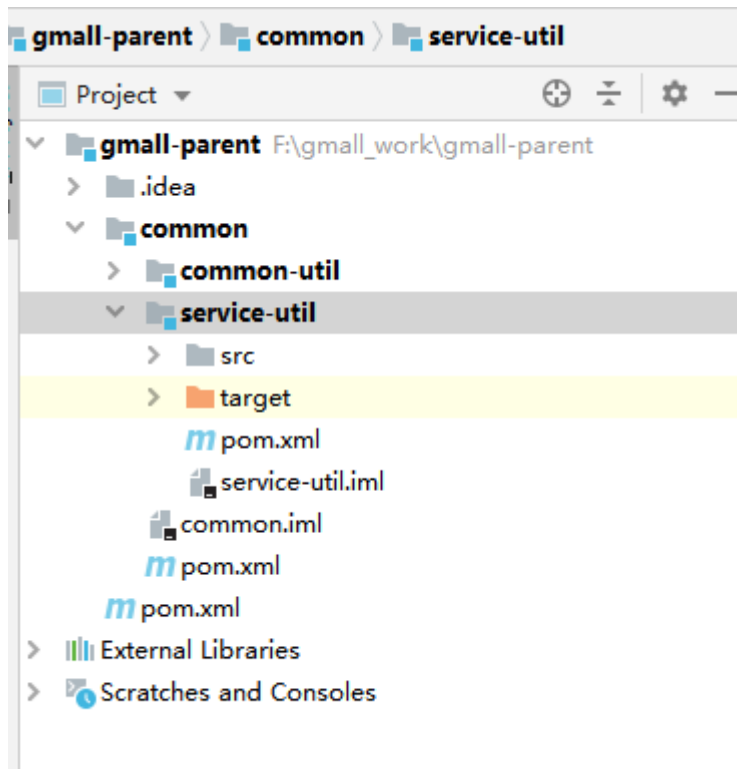
GmallException	自定义全局异常
Result	API 统一返回结果封装类
ResultCodeEnum	API 统一返回结果状态信息
AuthContextHolder	获取登录用户信息类
HttpClientUtil	http 客户端类
MD5	通过 MD5 给字符串加密的工具类
IpUtil	获取 Ip 地址的工具类
DateUtil	日期比较工具类

## 1.4 搭建 service-util 模块

### 1.4.1 搭建 service-util

搭建过程同 common-util

如图



### 1.4.2 修改配置 pom.xml

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

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

    <parent>
        <artifactId>common</artifactId>
        <groupId>com.atguigu.gmall</groupId>
        <version>1.0</version>
    </parent>

    <modelVersion>4.0.0</modelVersion>

    <artifactId>service-util</artifactId>

    <dependencies>
```



```
<dependency>
    <groupId>com.atguigu.gmall</groupId>
    <artifactId>common-util</artifactId>
    <version>1.0</version>
</dependency>

<!-- redis -->
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-data-redis</artifactId>
</dependency>

<!-- spring2.X 集成 redis 所需 common-pool2 -->
<dependency>
    <groupId>org.apache.commons</groupId>
    <artifactId>commons-pool2</artifactId>
</dependency>

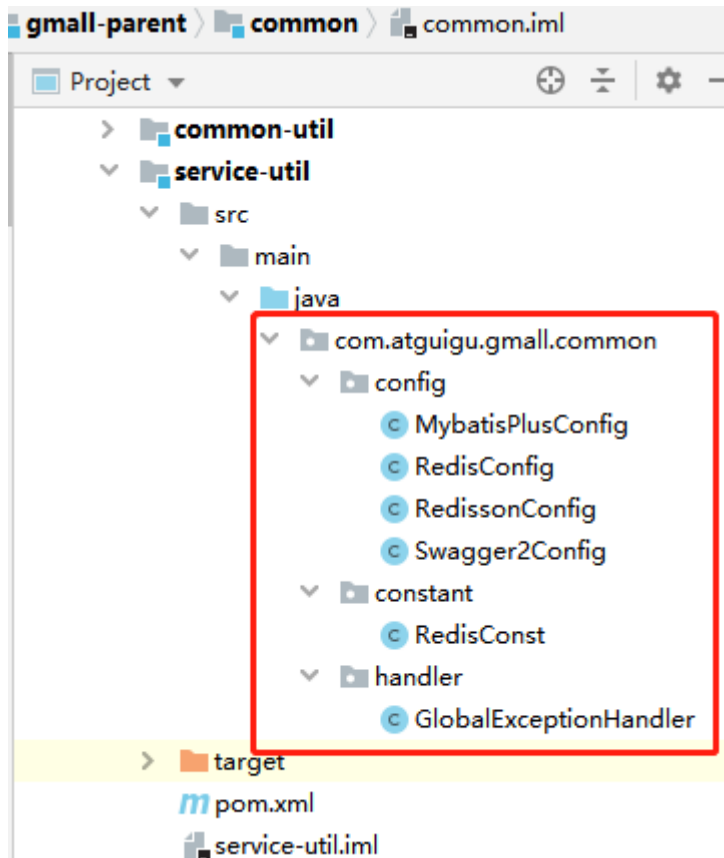
<!-- redisson 分布式锁 -->
<dependency>
    <groupId>org.redisson</groupId>
    <artifactId>redisson</artifactId>
</dependency>

<!--mybatis-plus-->
<dependency>
    <groupId>com.baomidou</groupId>
    <artifactId>mybatis-plus-boot-starter</artifactId>
    <scope>provided</scope>
</dependency>
```

```
</dependencies>

</project>
```

### 1.4.3 添加 service-util 公共类



MybatisPlusConfig	MybatisPlus 配置类
RedisConfig	Redis 配置类
RedissonConfig	Redisson 配置类
Swagger2Config	Swagger2 配置类
RedisConst	Redis 常量配置类
GlobalExceptionHandler	全局异常处理类

## 1.5 搭建 model 模块

### 1.5.1 搭建 model

点击 gmall-parent 父工程 选择 module

导入实体类：给的资料中

搭建过程同 common 父模块

### 1.5.2 修改配置 pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-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.atguigu.gmall</groupId>
    <artifactId>gmall-parent</artifactId>
    <version>1.0</version>
  </parent>

  <artifactId>model</artifactId>
  <version>1.0</version>

  <dependencies>
    <dependency>
      <groupId>org.projectlombok</groupId>
```

```
<artifactId>lombok</artifactId>

</dependency>

<!--mybatis-plus-->

<dependency>

    <groupId>com.baomidou</groupId>

    <artifactId>mybatis-plus-boot-starter</artifactId>

    <scope>provided </scope>

</dependency>

<!--swagger-->

<dependency>

    <groupId>io.springfox</groupId>

    <artifactId>springfox-swagger2</artifactId>

    <scope>provided </scope>

</dependency>

<dependency>

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

    <artifactId>spring-boot-starter-data-
elasticsearch</artifactId>

    <scope>provided </scope>

</dependency>

<dependency>

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

    <artifactId>spring-boot-starter-data-
mongodb</artifactId>

    <scope>provided </scope>

</dependency>

</dependencies>
```

```
</project>
```

## 1.6 搭建 service 父模块

service: service 模块父节点

service-product: 商品服务模块

...

### 1.6.1 搭建 service

搭建过程同 common 父模块

### 1.6.2 修改配置 pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <parent>
    <artifactId>gmall-parent</artifactId>
    <groupId>com.atguigu.gmall</groupId>
    <version>1.0</version>
  </parent>
  <modelVersion>4.0.0</modelVersion>
  <!-- 父工程 -->
  <packaging>pom</packaging>
  <artifactId>service</artifactId>

  <dependencies>
```

```
<!-- 依赖服务的工具类-->
<dependency>
    <groupId>com.atguigu.gmall</groupId>
    <artifactId>service-util</artifactId>
    <version>1.0</version>
</dependency>

<!-- 数据载体-->
<dependency>
    <groupId>com.atguigu.gmall</groupId>
    <artifactId>model</artifactId>
    <version>1.0</version>
</dependency>

<!-- web 需要启动项目-->
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
</dependency>

<!-- mybatis-plus-->
<dependency>
    <groupId>com.baomidou</groupId>
    <artifactId>mybatis-plus-boot-starter</artifactId>
</dependency>

<!-- mysql-->
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
</dependency>
```

```
<!-- 服务注册 -->
<dependency>
    <groupId>com.alibaba.cloud</groupId>
    <artifactId>spring-cloud-starter-alibaba-nacos-
discovery</artifactId>
</dependency>

<!-- 服务配置-->

    <!-- <dependency>
        <groupId>com.alibaba.cloud</groupId>
        <artifactId>spring-cloud-starter-alibaba-nacos-
config</artifactId>
    </dependency>
-->

<!-- 服务调用 feign -->
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-openfeign</artifactId>
</dependency>

<!-- 流量控制 -->
<dependency>
    <groupId>com.alibaba.cloud</groupId>
    <artifactId>spring-cloud-starter-alibaba-
sentinel</artifactId>
</dependency>

<!-- 开发者工具-->
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-devtools</artifactId>
    <optional>true</optional>
</dependency>
```

```
<!-- 链路追踪-->
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-zipkin</artifactId>
</dependency>

</dependencies>

</project>
```

码云连接参考：

[https://blog.csdn.net/weixin\\_42162451/article/details/115401731](https://blog.csdn.net/weixin_42162451/article/details/115401731)