清晰的目录结构

```
1 horse
2 | -- horse-bussiness 业务模块目录
  |-- mall-xx
      |-- ...
  |-- horse--framework 框架模块目录
   |-- horse-framework-core 核心代码
      |-- horse-framework-dependencies依赖管理
      |-- horse-framework-starters 组件模块目录
         |-- horse-framework-starter-web web组件
         |-- horse-framework-starter-mysql mysql组件
10
11
         |-- ...
12 | -- horse--support 支撑模块目录
|-- horse-gateway 网关
      |-- horse-user 用户中台
14
       |-- ...
15
16
```

依赖统一管理

horse-framework-dependencies模块中只有一个pom文件,它负责管理框架中所有用到的依赖版本。除了该模块的pom文件,其他框架模块中不会出现任何版本号的配置,方便统一维护。(如下是pom文件)

```
<?xml version="1.0" encoding="UTF-8"?>
   3
            xmlns="http://maven.apache.org/POM/4.0.0"
            xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven
 4
 5
       <modelVersion>4.0.0</modelVersion>
 6
       <packaging>pom</packaging>
 8
       <groupId>com.msb.cloud
       <artifactId>horse-framework-dependencies</artifactId>
9
10
       <version>1.0-SNAPSHOT
11
       cproperties>
           <spring-boot.version>2.5.6</spring-boot.version>
12
           <spring-cloud.version>2020.0.4/spring-cloud.version>
13
           <spring-cloud-alibaba.version>2.2.1.RELEASE</spring-cloud-alibaba.v€</pre>
14
15
           <mysql.version>6.0.6</mysql.version>
16
           <xxl-job.version>2.3.0/xxl-job.version>
           <druid.version>1.2.6</druid.version>
17
           <redisson.version>3.16.7</redisson.version>
18
           <jwt.version>0.9.1</jwt.version>
19
           <!--实用插件-->
20
21
           <knife4j.version>3.0.3</knife4j.version>
22
           <!--开发工具-->
23
           <commons.lang3.version>3.4</commons.lang3.version>
           <lombok.version>1.18.22</lombok.version>
24
           <easyexcel.version>2.1.6/easyexcel.version>
25
26
           <hibernate.validator.version>6.0.7.Final</hibernate.validator.version</pre>
27
           <mapstruct.version>1.4.2.Final/mapstruct.version>
2.8
           <swagger-annotations.version>1.5.22</swagger-annotations.version>
```

其他模块只要自身或者<mark>父模块引用了horse-framework-dependencies,则依赖包时可省略版本(如下是horse-framework-starter-mysgl模块的pom文件)</mark>

```
<?xml version="1.0" encoding="UTF-8"?>
2
   cproject xmlns="http://maven.apache.org/POM/4.0.0"
3
            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.
4
5
       <parent>
           <artifactId>horse-framework-starters</artifactId>
6
           <groupId>com.msb.cloud
           <version>1.0-SNAPSHOT
9
       </parent>
10
       <modelVersion>4.0.0</modelVersion>
11
12
       <artifactId>horse-framework-starter-mysql</artifactId>
13
       cproperties>
14
15
           <maven.compiler.source>8</maven.compiler.source>
16
           <maven.compiler.target>8</maven.compiler.target>
17
       </properties>
18
19
       <dependencies>
           <dependency>
20
21
               <groupId>mysql
22
               <artifactId>mysql-connector-java</artifactId>
23
           </dependency>
           <!--mybatis plus-->
24
           <dependency>
25
26
               <groupId>com.baomidou
27
               <artifactId>mybatis-plus-boot-starter</artifactId>
2.8
           </dependency>
```

可插拔式组件

框架中的horse-framework-starters模块下有很多的starter, 如horse-framework-starter-web, horse-framework-starter-mysql等,这些模块中已经做好了相应的依赖导入、配置优化、封装实用工具等操作。业务模块按需导入即可快速开始开发。

如某业务模块是web服务,且需要使用mysql、redis,那么pom文件如下:

```
<?xml version="1.0" encoding="UTF-8"?>
  2
3
          xmlns="http://maven.apache.org/POM/4.0.0"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.
4
5
      <parent>
          <artifactId>horse-demo</artifactId>
6
          <groupId>com.msb.cloud
          <version>1.0-SNAPSHOT
      </parent>
9
10
      <modelVersion>4.0.0</modelVersion>
11
      <artifactId>horse-demo-service</artifactId>
12
13
14
      <dependencies>
15
          <dependency>
16
             <groupId>com.msb.cloud
             <artifactId>horse-framework-starter-web</artifactId>
17
          </dependency>
18
19
          <dependency>
             <groupId>com.msb.cloud
20
21
             <artifactId>horse-framework-starter-redis</artifactId>
22
          </dependency>
23
          <dependency>
             <groupId>com.msb.cloud
24
             <artifactId>horse-framework-starter-mysql</artifactId>
25
26
          </dependency>
27
      </dependencies>
28
```

