开发设计规范

Go语言开发环境说明

开发语言: Golang v1.17代码检查: Staticcheck v0.2.2

开发工具: JetBrains GoLand2020/2021三方库: 需要满足License要求,如MIT编译出包: 支持win32/win64/linux

Java开发环境说明

编译工具: Intellij idea
JDK版本: jdk1.8.0_281
Spring boot: 2.6.6
Elasticsearch: 6.8.23
Postgresql: 14.4
Beats: 6.8.23

```
<parent>
   <groupId>org.springframework.boot</groupId>
   <artifactId>spring-boot-starter-parent</artifactId>
   <version>2.6.6
</parent><properties>
   project.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
   <java.version>1.8</java.version>
   <commons.lang.version>3.12.0</commons.lang.version>
   <commons.collection4.version>4.4</commons.collection4.version>
   <commons.codec.version>1.15</commons.codec.version>
   <commons-io.version>2.11.0</commons-io.version>
   <commons-text.version>1.9</commons-text.version>
   <org.mapstruct.version>1.4.2.Final/org.mapstruct.version>
   <org.projectlombok.version>1.18.22</org.projectlombok.version>
   <gson.version>2.9.0/gson.version>
   <guava.version>31.1-jre/guava.version>
   <fastjson.version>1.2.80</fastjson.version>
   <org.mockito.version>1.10.19</org.mockito.version>
   <validator.version>1.7</validator.version>
   <hutool.version>5.7.22/hutool.version>
   <maven.compiler.plugin.version>3.8.1/maven.compiler.plugin.version>
   <jacoco.maven.plugin.version>0.8.5</jacoco.maven.plugin.version>
   <maven.checkstyle.plugin.version>3.1.1/maven.checkstyle.plugin.version>
   <elasticsearch.version>6.8.23</elasticsearch.version>
</properties>
```

设计规范

数据层与业务层独立

数据库提供通过参数查询数据的功能,不涉及任何的业务代码;

业务层不涉及任何的数据库层面的操作(包括构建QueryBean),只通过参数和数据层提供的接口查询数据库数据。



目录结构说明

数据层

config: 存放配置类

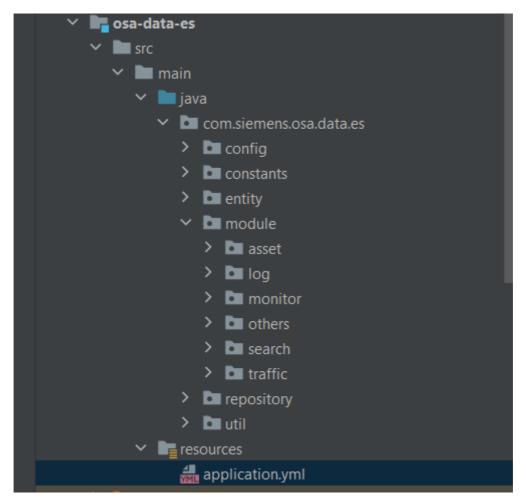
constants: 存放常量类

entity: 存放实体类

util: 存放工具类

repository: 数据库连接的通用客户端

module: 存放具体业务模块所需的dao, entity, service

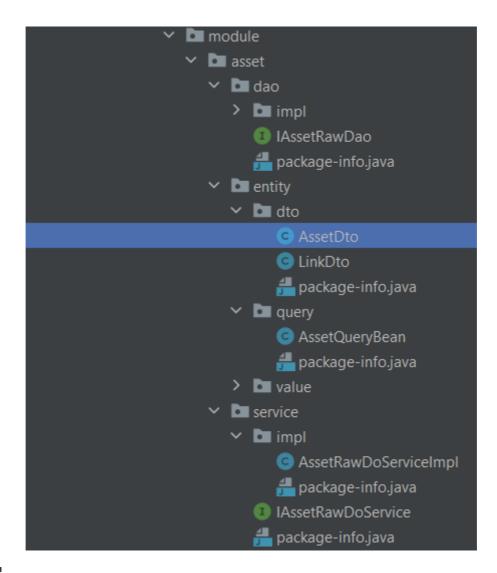


针对具体的module,包括dao,entity,service三个目录:

dao:数据库查询

entity: 数据库表结构/嵌套的实体/查询参数

service: 通过业务端传过来的参数构建的查询实体进行查询



业务层

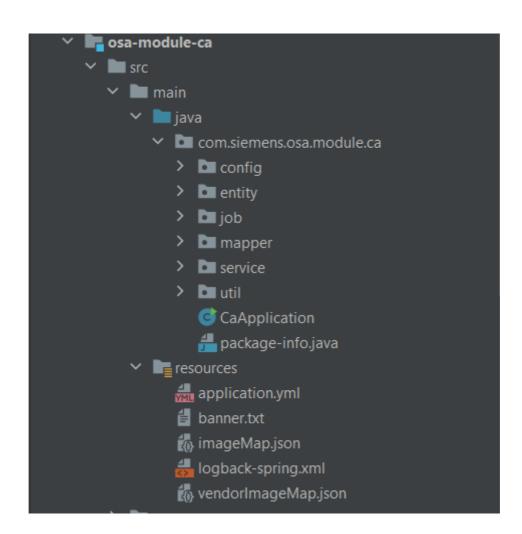
config: 存放配置类

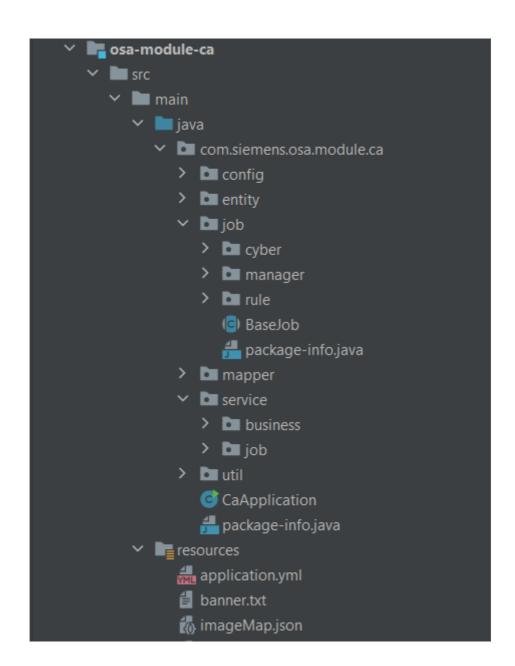
entity: 存放实体类

job: 定时任务类

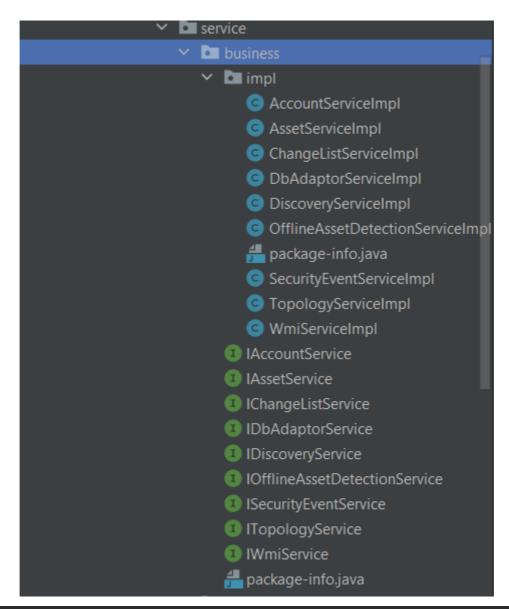
mapper: 针对实体的前后端转换

util: 存放工具类





面向接口调用



```
@Service
public class AccountServiceImpl implements IAccountService {

/**
    * accountGroupDoService.

*/
private final IAccountGroupDoService accountGroupDoService;

/**
    * accountDoService.

*/
private final IAccountDoService accountDoService;

/**
    * dbAdaptorService.

*/
private final IDbAdaptorService dbAdaptorService;
```

代码规范

会提供相应的checkstyle.xml, JavaCodeFormatter.xml.

```
/**
  * account service implement.
  *
  * @author zhang.jun-jie@siemens.com
  @ @author wu.hongfeng@siemens.com
  */
@Service
public class AccountServiceImpl implements IAccountService {
    /**
```