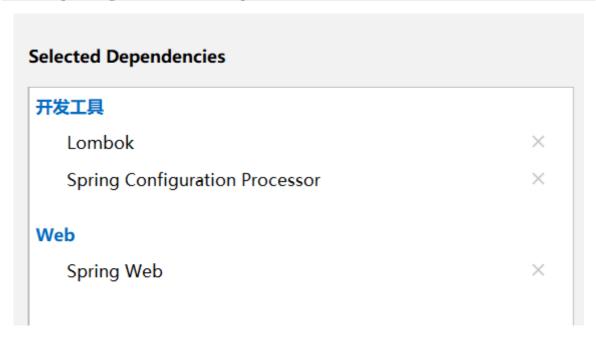
基于SpringBoot+knife4j实现后端API开发

https://doc.xiaominfo.com/knife4j/documentation/get_start.html

创建SpringBoot项目-apidemo



创建RESTful接口服务

```
package com.glxy.apidemo.controller;

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

@RestController
public class ApiController {
    //http://localhost:8080/test
    @RequestMapping(value = "/test",method =
{RequestMethod.GET,RequestMethod.POST})
    public String test( String name) {
        return "hello,"+name;
    }
}
```

测试项目能否正常运行

hello,glxy

在maven项目的 pom. xml 中引入Knife4j的依赖包

配置knife4j

```
#knife4j配置 https://doc.xiaominfo.com/knife4j/documentation/enhance.html knife4j.enable=true #开启生产环境屏蔽 knife4j.production=false # 是否开启一个默认的跨域配置,该功能配合自定义Host使用,默认值为false knife4j.cors=true
```

```
package com.glxy.apidemo.config;

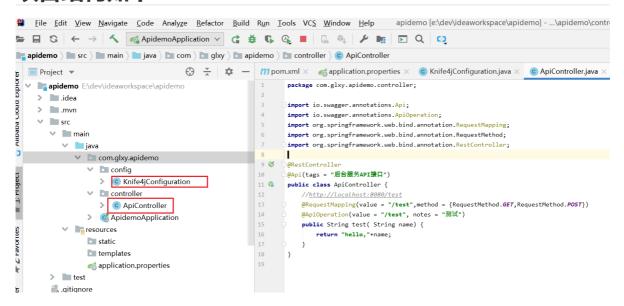
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import springfox.documentation.builders.ApiInfoBuilder;
import springfox.documentation.builders.PathSelectors;
import springfox.documentation.builders.RequestHandlerSelectors;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2webMvc;

@Configuration
@EnableSwagger2WebMvc
public class Knife4jConfiguration {

@Bean(value = "defaultApi2")
```

```
public Docket defaultApi2() {
       Docket docket=new Docket(DocumentationType.SWAGGER_2)
                .apiInfo(new ApiInfoBuilder()
                        .title("后端RESTful APIs")
                        .description("# 后端RESTful APIs")
                        .termsOfServiceUrl("http://www.xx.com/")
                        .contact("xx@qq.com")
                        .version("1.0")
                        .build())
               //分组名称
                .groupName("2.X版本")
                .select()
               //这里指定扫描包路径
                .apis(RequestHandlerSelectors.basePackage("com.glxy.apidemo"))
                .paths(PathSelectors.any())
                .build();
       return docket;
   }
}
```

项目结构如下



利用注解配置生成接口api在线技术文档

示例代码:

```
@Api(tags = "首页模块")
@RestController
public class IndexController {

    @ApiImplicitParam(name = "name",value = "姓名",required = true)
    @ApiOperation(value = "向客人问好")
    @GetMapping("/sayHi")
    public ResponseEntity<String> sayHi(@RequestParam(value = "name")String
name) {
        return ResponseEntity.ok("Hi:"+name);
    }
}
```

```
@RestController
@Api(tags = "后台服务API接口")
public class ApiController {
    //http://localhost:8080/test
    @RequestMapping(value = "/test", method =
{RequestMethod.GET,RequestMethod.POST})
    @ApiOperation(value = "/test", notes = "测试")
    public String test( String name) {
        return "hello,"+name;
    }
}
```

启动Spring Boot工程,在浏览器中访问: http://localhost:8080/doc.html



增强功能

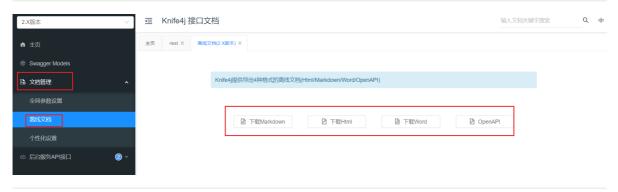
增强功能需要通过配置yml配置文件开启增强,自2.0.6开始,需配置:

```
knife4j.enable=true
```

如接口排序规则需使用 Knife4j 提供的增强注解 @ApiOperationSupport

```
@ApiOperationSupport(order = 33)
```

导出离线文档



SIf4j的使用

添加lombok依赖

```
<dependency>
     <groupId>org.projectlombok</groupId>
     <artifactId>lombok</artifactId>
        <optional>true</optional>
</dependency>
```

在类定义前使用@Slf4j注解,在方法中使用log.xxx()方法输出日志信息;

```
import io.swagger.annotations.Api;
4
5
        import io.swagger.annotations.ApiOperation;
       import lombok.extern.slf4j.Slf4j;
 6
        import org.springframework.web.bind.annotation.RequestMapping;
 7
8
       import org.springframework.web.bind.annotation.RequestMethod;
9
      import org.springframework.web.bind.annotation.RestController;
10
@Api(tags = "后台服务API接口") //添加接口模块描述
12
13
      Ģ@Slf4j
14 🍪 public class ApiController {
15
           //http://localhost:8080/test
           @RequestMapping(value = "/test", method = {RequestMethod.GET, RequestMethod.POST})
16
           @ApiOperation(value = "/test", notes = "测试")//添加接口描述
17
           @ApiOperationSupport(author = "2695341@qq.com")//添加接口作者
18
           public String test( String name) {
19
20
              log.info(name);
21
               return "hello,"+name;
           }
       }
23
```

在配置文件中可配置日志输出级别

```
#输出日志级别
logging.level.com.glxy.apidemo.controller=info
```