[CS304] Lab10 Software Documentation

Part 1 JavaDoc

JavaDoc tool is a document generator tool in Java programming language for generating standard documentation in HTML format. It generates API documentation. It parses the declarations ad documentation in a set of source file describing classes, methods, constructors, and fields.

Before using JavaDoc tool, you must include JavaDoc comments /**.....*/ providing information about classes, methods, and constructors, etc. For creating a good and understandable document API for any java file you must write better comments for every class, method, constructor.

Example:

Syntax	Parameter	Description
@author	author_name	Describes an author
@param	description	provide information about method parameter or the input it takes
@see	reference	generate a link to other element of the document
@version	version-name	provide version of the class, interface or enum.
@return	description	provide the return value

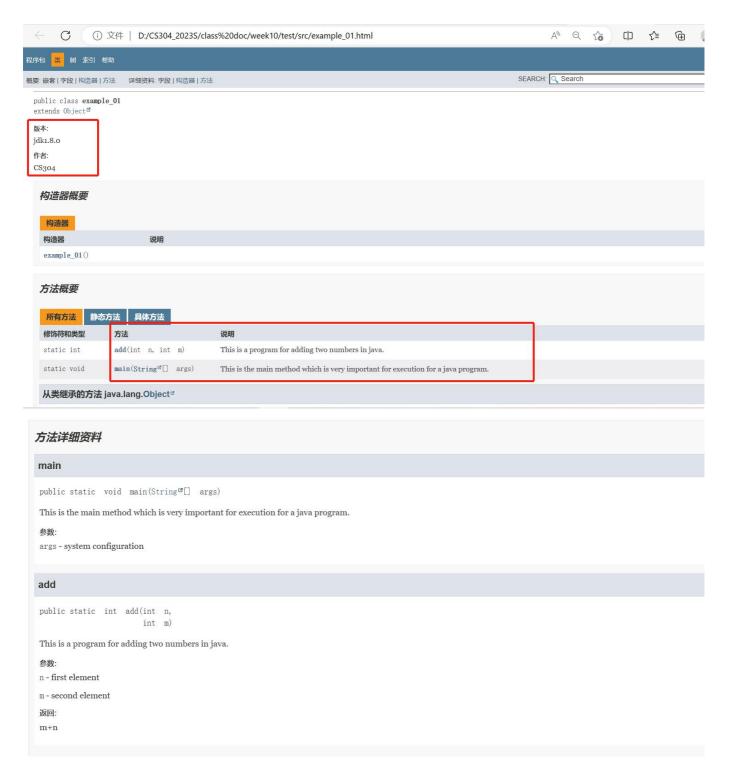
More Tag information links(Official links):

https://docs.oracle.com/javase/8/docs/technotes/tools/windows/javadoc.html

Part 1-1 Start a simple Java programe

Creat a simple Java program (int)a+b,please refer attachment(example_01.java),run command-line below the java path:

javadoc -author -version -encoding UTF-8 -charset UTF-8 example_01.java



and if you run the command below, you will get a English version:

```
javadoc -author -version -J-Duser.language=en -J-Duser.country=US -encoding UTF-8
-charset UTF-8 example_01.java
```



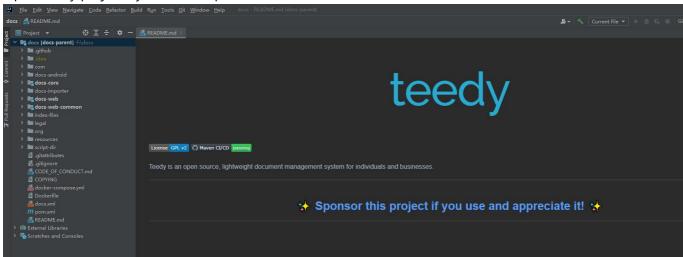
About command you can refer oracle document below:

https://docs.oracle.com/javase/8/docs/technotes/tools/windows/javadoc.html

javadoc {packages|source-files} [options] [@argfiles]

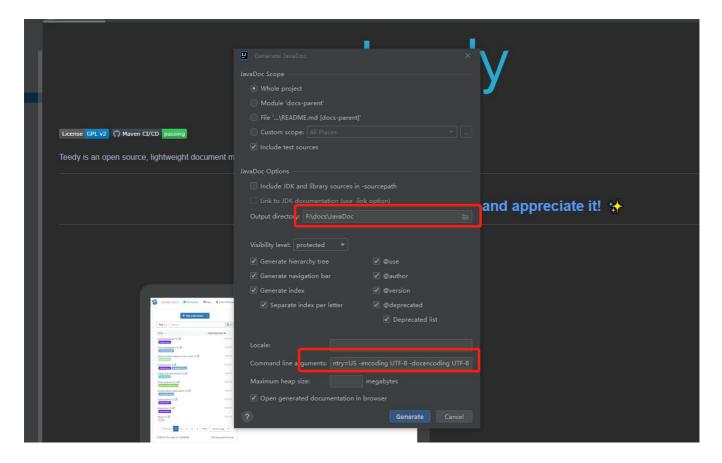
Part 1-2 Create document for Teedy Project

Open Teedy project by IDEA, and open tools->Generate JavaDoc

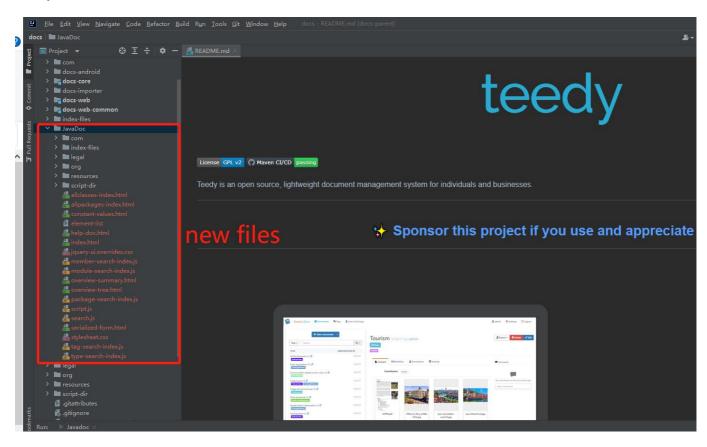


config command line arguement: tips:JavaDoc created by yourself

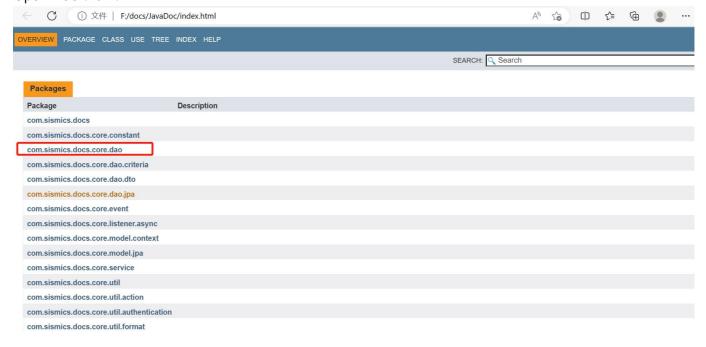
```
-J-Duser.language=en -J-Duser.country=US -encoding UTF-8 -docencoding UTF-8
```

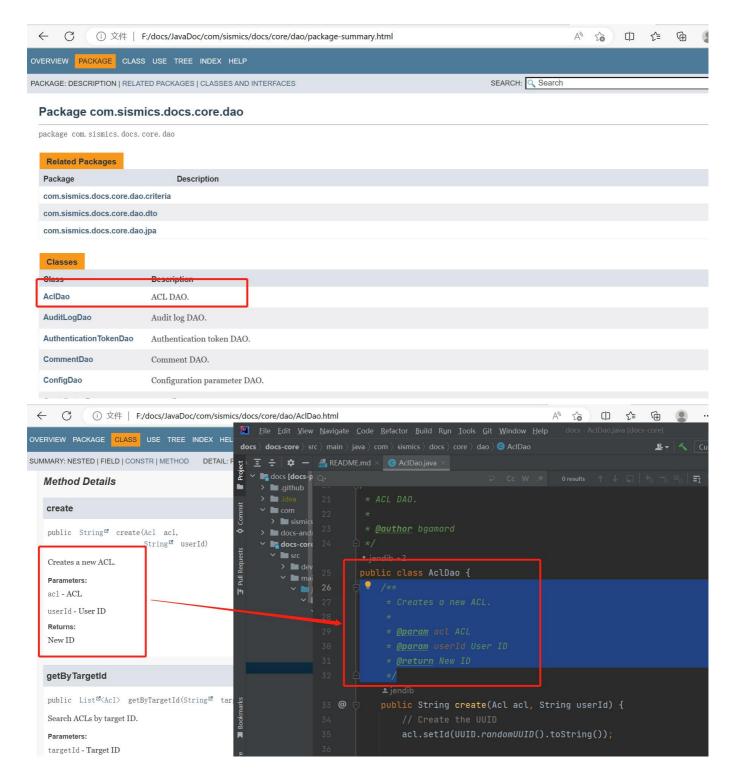


then you will see:



Open index.html:





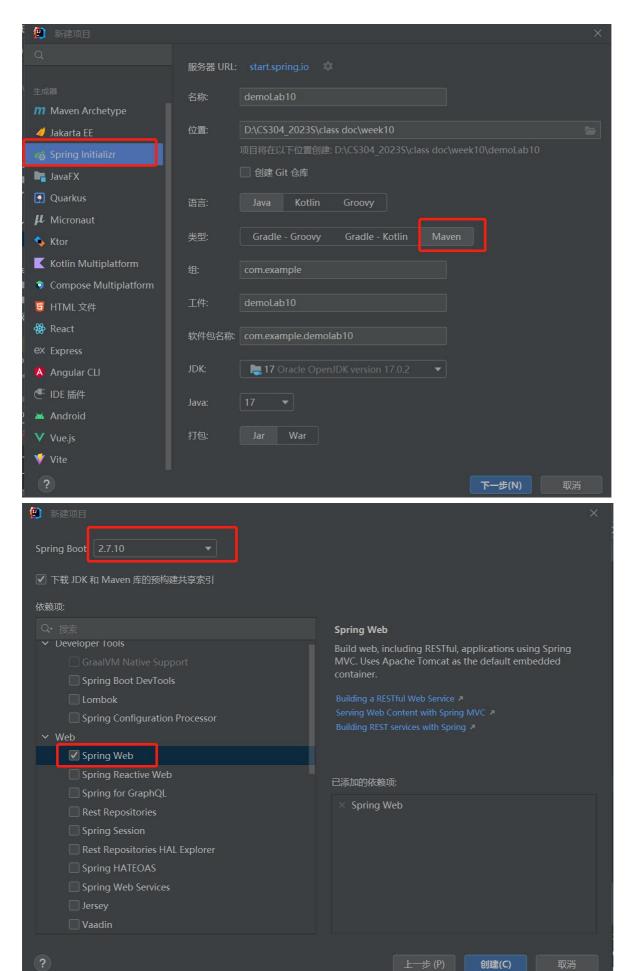
Part 2 Swagger

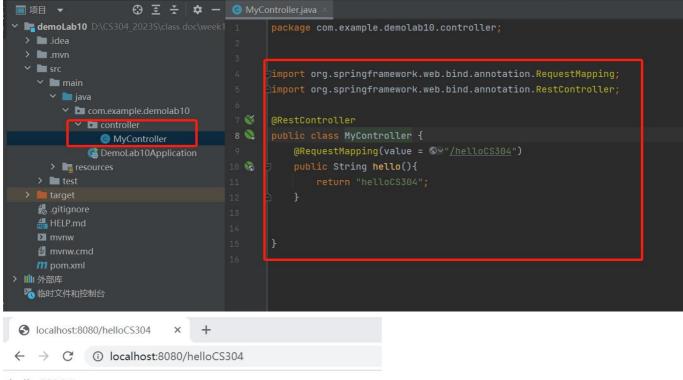
Official website: https://swagger.io/

Swagger, is an API description format for RESTful APIs. It provides a standardized way to describe the structure of an API, making it easy for developers to understand and interact with the API. The OpenAPI Specification (OAS) defines a set of rules for describing the API's endpoints, methods, input parameters, and response objects.

Part 2-1 Start a simple SpringBoot project with Swagger

Tips:If you want to create a SpringBoot template project by IDEA, you can apply a IDEA education account.





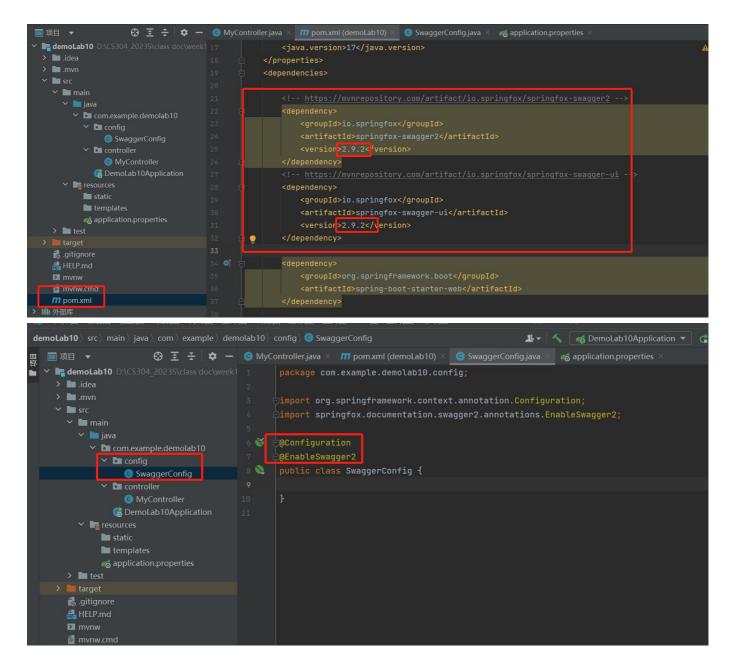
helloCS304

Config Swagger and start:

mvn repo:

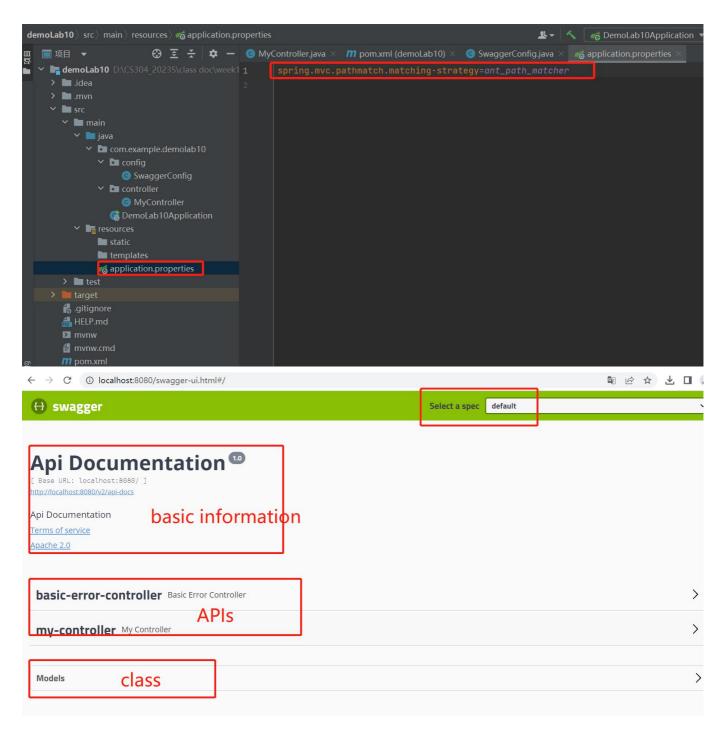
https://mvnrepository.com/artifact/io.springfox/springfox-swagger2/2.9.2

https://mvnrepository.com/artifact/io.springfox/springfox-swagger-ui/2.9.2



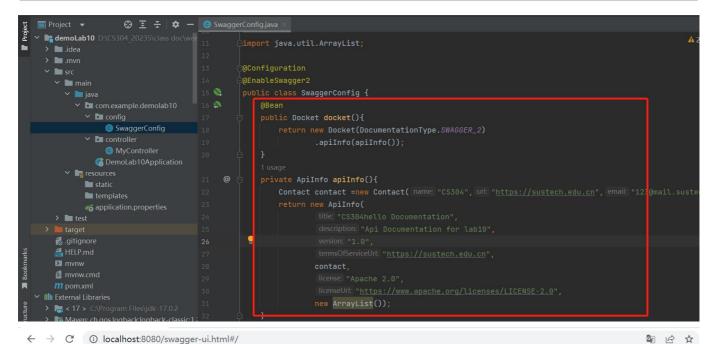
maybe there's version conflicts, you need config:

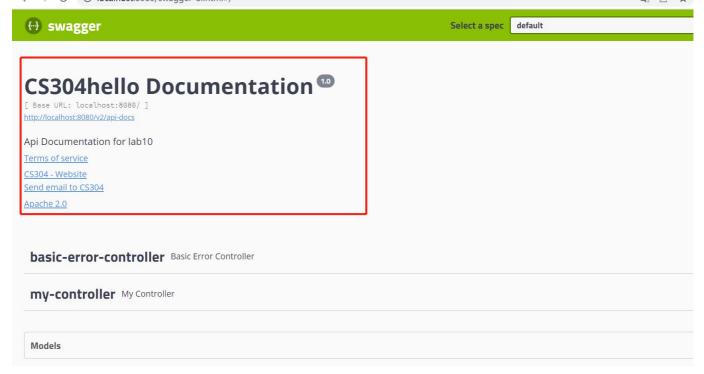
```
spring.mvc.pathmatch.matching-strategy=ant_path_matcher
```



Config basic information:

```
contact,
   "Apache 2.0",
   "https://www.apache.org/licenses/LICENSE-2.0",
   new ArrayList());
}
```





Config start choice:

If I want start different properties like development environment, production environment etc..

application.properties

```
spring.mvc.pathmatch.matching-strategy=ant_path_matcher
spring.profiles.active=pro
```

application-pro.properties

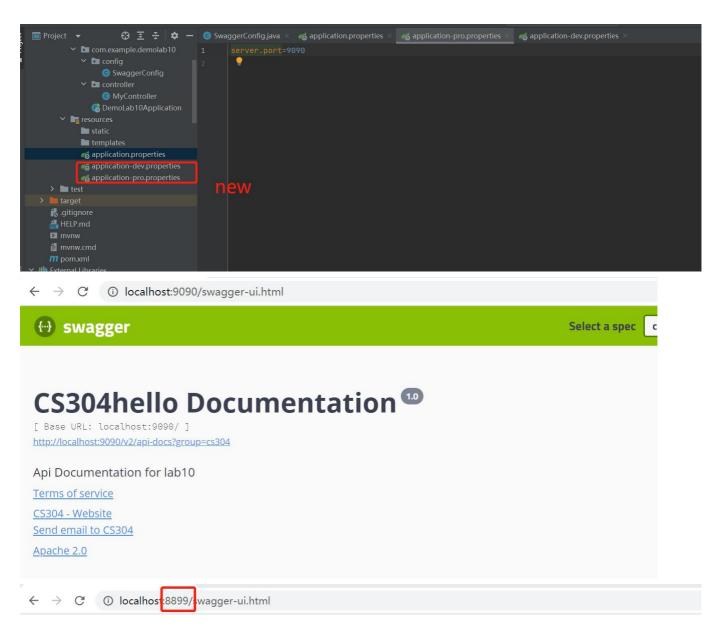
```
server.port=9090
```

application-dev.properties

```
server.port=8899
```

SwaggerConfig:

you can get different result by using different congfig.





无法访问此网站

localhost 拒绝了我们的连接请求。

请试试以下办法:

- 检查网络连接
- 检查代理服务器和防火墙

ERR_CONNECTION_REFUSED

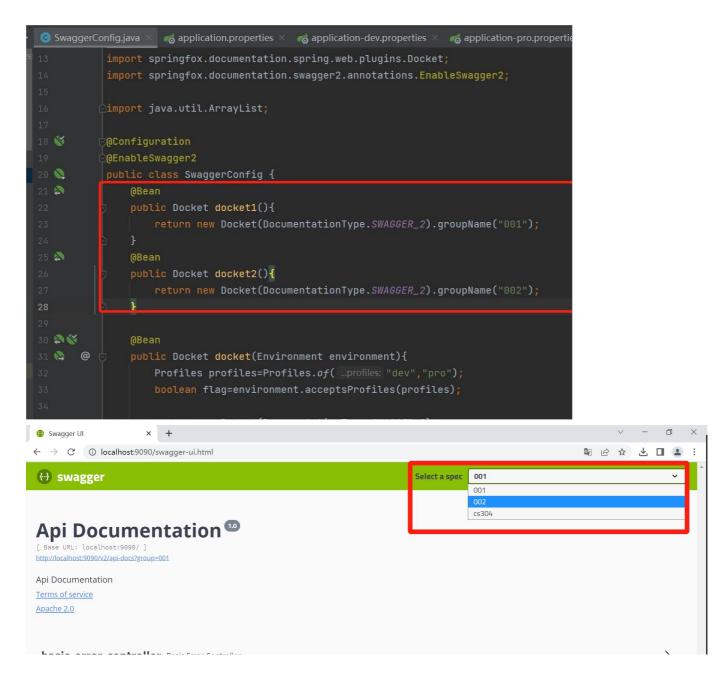
Add group:

@Bean
public Docket docket(Environment environment){



Add two more Docket

```
@Bean
public Docket docket1(){
    return new Docket(DocumentationType.SWAGGER_2).groupName("001");
}
@Bean
public Docket docket2(){
    return new Docket(DocumentationType.SWAGGER_2).groupName("002");
}
```



Annotation rules:

```
com.example.demolab10

config
SwaggerConfig

MyController
MyController

User

DemoLab10Application

resources
static

3 usages

@ApiModel("user class")

public class User {

no usages

public String userName;

no usages

public String password;
```