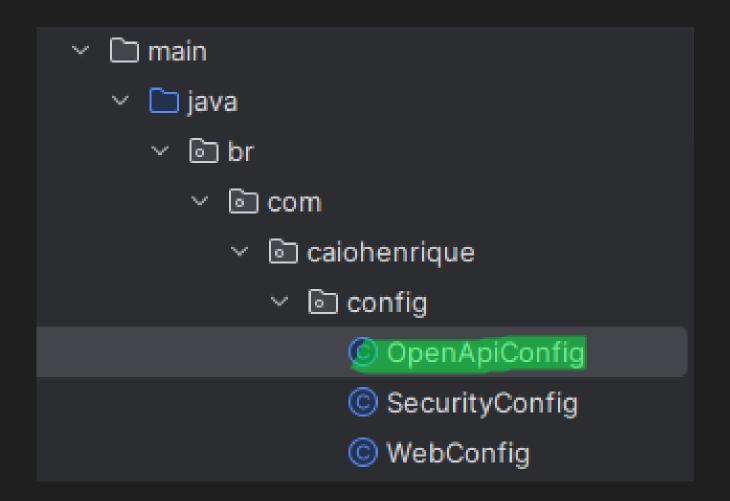
Documenting REST API Spring Boot with SWAGGER





To begin with, we will add the **openapi** dependency for our project, in version **2.2.0**.

Don't forget to ensure that Maven has loaded all the necessary dependencies to move forward.



In your Spring application, create a configuration package and then create the OpenApiConfig class.

```
@Configuration
public class OpenApiConfig {
```

Add the @Configuration annotation to tell Spring that this is a configuration class.

```
@Bean
OpenAPI customOpenApi() {
```

Create the customOpenApi method with the @Bean annotation, within it you will define all the information about your API, which will appear in the Swagger interface.

Swagger Documentation

Pass all the information about your **API** into the method parameters, however you see fit.

Configuring Swagger in Controller

After configuring the general **Swagger** class, we also need to configure all of our endpoints, to clearly define the functions of our API.

```
@RestController
@RequestMapping(♥♥"/books/v1")
@Tag(name = "Library", description = "Endpoints for Managing Library")
public class BookController {
    @Autowired
    private BookService service;
```

Add an @Tag annotation, where we will pass the name of what the endpoint manages and its description.

Configurando o Endpoint

```
@GetMapping(value = @>"/{id}", produces = { APPLICATION_JSON, APPLICATION_XML, APPLICATION_YML})
@Operation(summary = "Find a book", description = "Find a book", tags = {"Library"},
        responses = {
                @ApiResponse(description = "Success", responseCode = "200",
                        content = {
                                @Content(
                                        schema = @Schema(implementation = BookVO.class)
                        }),
                @ApiResponse(description = "No Content", responseCode = "204", content = @Content),
                @ApiResponse(description = "Bad Request", responseCode = "400", content = @Content),
                @ApiResponse(description = "Unauthorized", responseCode = "401", content = @Content),
                @ApiResponse(description = "Not Found", responseCode = "404", content = @Content),
                @ApiResponse(description = "Internal Server Error", responseCode = "500", content = @Content),
        })
public BookVO findBookById(@PathVariable(value = "id") Long id) { return service.findById(id); }
```

This endpoint searches for a book by Id, I need to show Swagger what types of data this endpoint receives and produces.

I also need to add the @Operation annotation, in which I will define all possible responses from my API to the request and their

respective Status Code.

Configuring the heart of Spring.

After configuring our entire controller, we just need one more adjustment to the heart of Spring (application.properties or application.yml).

application.yml

```
springdoc:
   swagger-ui:
     use-root-path: true
   paths-to-match:
     - /**/v1/**
     - /auth/**
```

application.properties

```
springdoc.swagger-ui.use-root-path=true
springdoc.paths-to-match=/**/v1/**, /auth/**
```

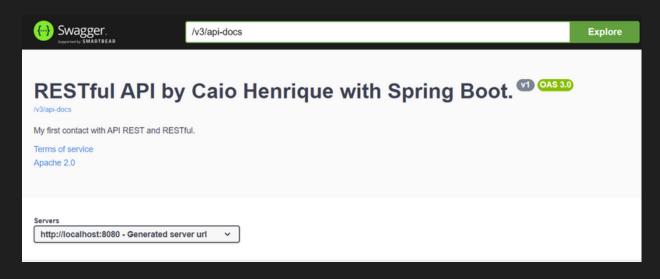
Add the routes Swagger needs to document, remembering that ** means "anything".

After completing all the steps, start your API and access http://localhost:8080/swagger-ui/index.html to see the Swagger interface.

Or

<u>http://localhost:8080/v3/api-docs</u> to access JSON from your API.

Swagger Interface





DID YOU LIKE THE CONTENT?

Leave your feedback

To help me improving!



