

# Agregamos un API mas para mostrar imágenes

edipse-workspace - springboot-apirest/src/main/java/com/formacionjava/springboot/apirest/controllers/ClienteRestController.java - Edipse IDE

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ClienteRestController.java x

```
216
217     return new ResponseEntity<Map<String,Object>>(response,HttpStatus.CREATED);
218 }
219
220 @GetMapping("/uploads/img/{nombreFoto:.+}")
221 public ResponseEntity<Resource> verFoto(@PathVariable String nombreFoto){
222     Path rutaArchivo = Paths.get("uploads").resolve(nombreFoto).toAbsolutePath();
223
224     Resource recurso = null;
225
226     try {
227         recurso = new UrlResource(rutaArchivo.toUri());
228     } catch (MalformedURLException e) {
229         e.printStackTrace();
230     }
231
232     if(!recurso.exists() && !recurso.isReadable()){
233         throw new RuntimeException("Error no se puede cargar la imagen "+nombreFoto);
234     }
235
236     HttpHeaders cabecera = new HttpHeaders();
237     cabecera.add(HttpHeaders.CONTENT_DISPOSITION,"attachment;filename=\""+recurso.getFilename()+"\"");
238     return new ResponseEntity<Resource>(recurso,cabecera,HttpStatus.OK);
239 }
240
241 }
242
```

Postman

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Invite

Upgrade

ST GET h. POST POST POST GET h. DEL h. GET h. POST DEL h.. PUT h.

No Environment

http://localhost:8087/api/clientes/upload

Save

POST http://localhost:8087/api/clientes/upload

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL

archivo

Image (1).PNG

id

1

Key

Value

Description

Body Cookies Headers (5) Test Results

Status: 201 Created Time: 104 ms Size: 453 B Save Response

Pretty Raw Preview Visualize JSON

5 "apellido": "Perez",

6 "email": "jp@hotmail.com",

7 "telefono": 65433223,

8 "createdAt": "2021-10-01",

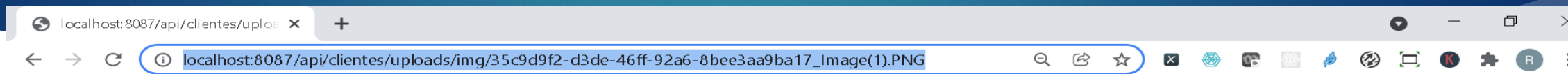
9 "imagen": "35c9d9f2-d3de-46ff-92a6-8bee3aa9ba17\_Image(1).PNG"

10 },

11 "mensaje": "Has subido correctamente la imagen: 35c9d9f2-d3de-46ff-92a6-8bee3aa9ba17\_Image(1).PNG"

12 }

http://localhost:8087/api/uploads/img/35c9d9f2-d3de-46ff-92a6-8bee3aa9ba17\_Image(1).PNG



## Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Tue Nov 23 05:31:21 CET 2021

There was an unexpected error (type=Not Found, status=404).

No message available

35c9d9f2-d3de-4...PNG ^

Mostrar todo

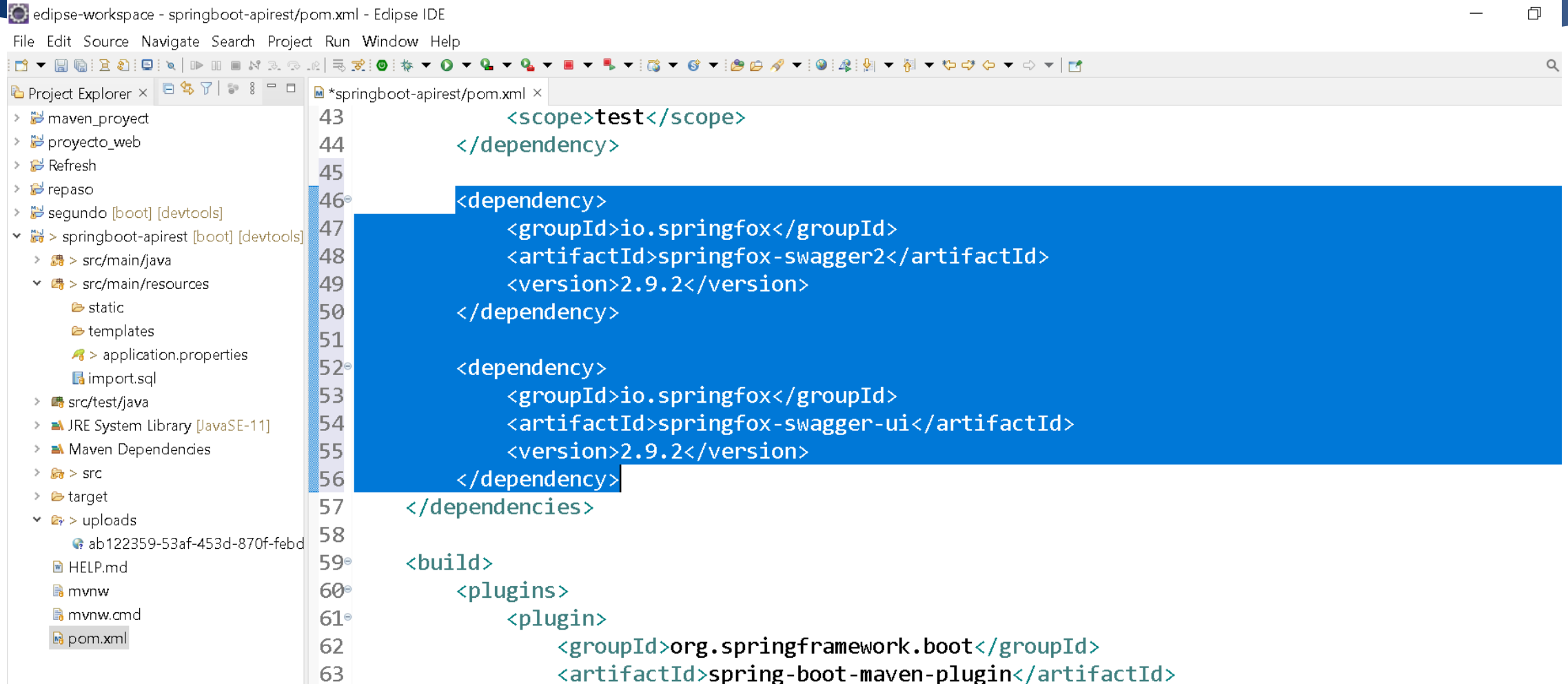
# Swagger

- ▶ Swagger es un framework de código abierto respaldado por un gran ecosistema de herramientas que ayuda a los desarrolladores a diseñar, construir, documentar y consumir servicios web Restful
- ▶ Una de las más utilizadas es Swagger UI tool
- ▶ Swagger tiene una serie de reglas, especificaciones y herramientas que nos ayudan a documentar nuestras APIs

# Documentación de API

- ▶ Una api que no esta documentada, posiblemente sea difícil de utilizar
- ▶ En ocasiones se implementan reglas y validaciones que nos obligan a utilizar tipos de datos concretos

# Primero configuramos el pom.xml



The screenshot shows the Eclipse IDE interface. The title bar reads "edipse-workspace - springboot-apirest/pom.xml - Edipse IDE". The menu bar includes "File", "Edit", "Source", "Navigate", "Search", "Project", "Run", "Window", and "Help". The toolbar contains various icons for file operations and development tools. The Project Explorer on the left shows a project structure with folders like "maven\_project", "proyecto\_web", "segundo [boot] [devtools]", and "springboot-apirest [boot] [devtools]". The "springboot-apirest" folder is expanded, showing subfolders like "src/main/java", "src/main/resources", "src/test/java", and "uploads". The "pom.xml" file is selected in the Project Explorer and is also the active editor in the center. The pom.xml content is as follows:

```
43         <scope>test</scope>
44     </dependency>
45
46     <dependency>
47         <groupId>io.springfox</groupId>
48         <artifactId>springfox-swagger2</artifactId>
49         <version>2.9.2</version>
50     </dependency>
51
52     <dependency>
53         <groupId>io.springfox</groupId>
54         <artifactId>springfox-swagger-ui</artifactId>
55         <version>2.9.2</version>
56     </dependency>
57 </dependencies>
58
59 <build>
60     <plugins>
61         <plugin>
62             <groupId>org.springframework.boot</groupId>
63             <artifactId>spring-boot-maven-plugin</artifactId>
```

# Creamos el siguiente paquete y clase

edipse-workspace - springboot-apirest/src/main/java/com/formacionjava/springboot/apirest/config/SwaggerConfig.java - Eclipse IDE

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The screenshot shows the Eclipse IDE interface. On the left, the Project Explorer displays a tree structure of the project. The package `com.formacionjava.springboot.apirest.config` is highlighted with a red box, and the file `SwaggerConfig.java` is also highlighted with a red box. On the right, the editor shows the code for `SwaggerConfig.java`. The code is as follows:

```
1 package com.formacionjava.springboot.apirest.config;  
2  
3 public class SwaggerConfig {  
4  
5 }  
6
```

# Agregamos el siguiente código

edipse-workspace - springboot-apirest/src/main/java/com/formacionjava/springboot/apirest/config/SwaggerConfig.java - Edipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help



Project Explorer ×

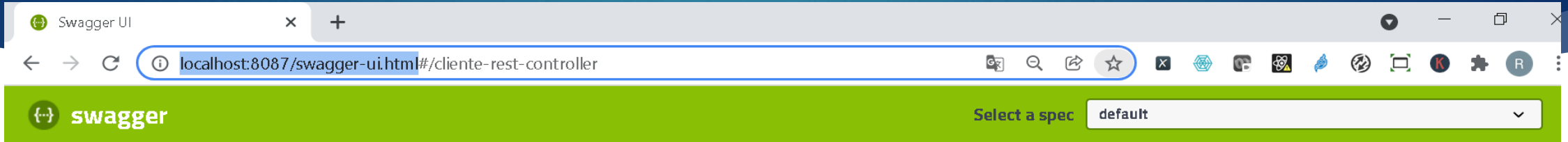
- > maven\_proyect
- > proyecto\_web
- > Refresh
- > repaso
- > segundo [boot] [devtools]
- > > springboot-apirest [boot] [devtools] [re]
  - > > src/main/java
    - > > com.formacionjava.springboot.ap
    - > > com.formacionjava.springboot.ap
      - > > SwaggerConfig.java
    - > > com.formacionjava.springboot.ap
    - > > com.formacionjava.springboot.apir
    - > > com.formacionjava.springboot.ap
    - > > com.formacionjava.springboot.apir
  - > > src/main/resources
  - > > src/test/java
  - > > JRE System Library [JavaSE-11]
  - > > Maven Dependencies
  - > > src
  - > > target
  - > > uploads
    - > > ab122359-53af-453d-870f-febdb8
  - > > HELP.md
  - > > mvnw
  - > > mvnw.cmd
  - > > pom.xml

springboot-apirest/pom.xml × SwaggerConfig.java ×

```
3= import org.springframework.context.annotation.Bean;
4 import org.springframework.context.annotation.Configuration;
5 import org.springframework.web.context.support.RequestHandledEvent;
6
7 import springfox.documentation.builders.PathSelectors;
8 import springfox.documentation.builders.RequestHandlerSelectors;
9 import springfox.documentation.spi.DocumentationType;
10 import springfox.documentation.spring.web.plugins.Docket;
11 import springfox.documentation.swagger2.annotations.EnableSwagger2;
12
13 @Configuration
14 @EnableSwagger2
15 public class SwaggerConfig {
16
17=  @Bean
18     public Docket api() {
19         return new Docket(DocumentationType.SWAGGER_2)
20             .select()
21             .apis(RequestHandlerSelectors.basePackage("com.formacionjava.springboot.apirest.controllers"))
22             .paths(PathSelectors.any())
23             .build();
24
25
26     }
27 }
28
```



# Compilamos e ingresamos a <http://localhost:8087/swagger-ui.html>



## Api Documentation <sup>1.0</sup>

[ Base URL: localhost:8087/ ]

<http://localhost:8087/v2/api-docs>

Api Documentation

[Terms of service](#)

[Apache 2.0](#)

### cliente-rest-controller Cliente Rest Controller



**GET** /api/clientes index

**POST** /api/clientes create

**GET** /api/clientes/{id} show

**PUT** /api/clientes/{id} update