U7A1 Documentación Rest API

```
@GetMapping(value = "/employees/{id}")
public Employee getEmployee(@PathVariable String id) {
    Optional < Employee > optional = employees.stream()
            .filter(emp -> emp.getId().equals(id))
            .findAny();
    if(optional.isEmpty()) {
        throw new IllegalArgumentException("Employee does not exist for id: "+id);
    return optional.get();
@PostMapping(value = "/employees")
public String createEmployee(@RequestBody Employee emp){
    emp.setId(UUID.randomUUID().toString());
    employees.add(emp);
    return emp.getId();
@PutMapping(value = "/employees")
public String updateEmployee(Employee updatedEmp){
    employees.stream()
            .filter(e -> updatedEmp.getId().equals(e.getId()))
            .findFirst()
            .map(emp -> {
                BeanUtils.copyProperties(updatedEmp, emp);
                return emp;
            .orElseThrow();
    return updatedEmp.getId();
```

```
@GetMapping(value = "/departments")
public List<Department> getAllDepartments() {
    return departments;
@GetMapping(value = "/departments/{id}")
public Department getDepartment(@PathVariable String id) {
    Optional<Department> optional = departments.stream()
            .filter(emp -> emp.getId().equals(id))
            .findAny();
    if(optional.isEmpty()) {
        throw new IllegalArgumentException("Department does not exist for id: "+id);
    return optional.get();
@PostMapping(value = "/departments")
public String createDepartment(Department department){
    department.setId(UUID.randomUUID().toString());
    departments.add(department);
    return department.getId();
```

Añadimos dependencia de OpenAPI

```
dependencies {
    implementation 'org.springframework.boot:spring-boot-starter-web:2.3.1.RELEASE'
    implementation 'org.springframework:spring-context:5.2.7.RELEASE'
    implementation 'org.reflections:reflections:0.9.12'
    implementation 'org.springdoc:springdoc-openapi-ui:1.5.8'
```

```
build.gradle M X
piserver > 🖈 build.gradle > 🗘 plugins
      plugins {
          id "java"
          targetCompatibility = "11"
sourceCompatibility = "11"
 3
 4
          id "org.springframework.boot" version "2.3.1.RELEASE"
          id "io.spring.dependency-management" version "1.0.9.RELEASE"
          id "org.openapi.generator" version "5.1.0"
10
      repositories {
          mavenCentral()
     dependencies {
          implementation 'org.springframework.boot:spring-boot-starter-web:2.3.1.RELEASE'
          implementation 'org.springframework:spring-context:5.2.7.RELEASE'
          implementation 'org.reflections:reflections:0.9.12'
          implementation 'org.springdoc:springdoc-openapi-ui:1.5.8'
          testImplementation 'org.junit.jupiter:junit-jupiter-api:5.7.0'
          testRuntimeOnly 'org.junit.jupiter:junit-jupiter-engine:5.7.0'
     test {
          useJUnitPlatform()
```

```
🛪 build.gradle 2, M 🍳
apiserver > ☼ build.gradle > ♡ openApiGenerate
       dependencies {
           testRuntimeOnly 'org.junit.jupiter:junit-jupiter-engine:5.7.0'
       test {
           useJUnitPlatform()
       bootJar {
           mainClassName = 'com.xyz.openapi.server.Application'
       openApiGenerate {
 34
           inputSpec.set("$rootDir/api-docs.json")
           outputDir.set("$rootDir/thinclient")
           groupId.set("com.xyz.openapi")
           id.set("openapi-thinclient")
           version.set("0.0.1-SNAPSHOT")
           apiPackage.set("com.xyz.openapi.thinclient.api")
           invokerPackage.set("com.xyz.openapi.thinclient.invoker")
 43
           modelPackage.set("com.xyz.openapi.thinclient.model")
 44
           generatorName.set("java");
           library.set("resttemplate")
           configOptions.put("serializationLibrary", "jackson")
```

Configuración

```
package com.xyz.openapi.server.config;
import io.swagger.v3.oas.models.OpenAPI;
import io.swagger.v3.oas.models.info.Info;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
@Configuration
public class SwaggerConfiguration {
    public OpenAPI openAPI() {
        Contact contact = new Contact();
        contact.setEmail("help@xyz.com");
        contact.setName("XYZ Support");
        contact.setUrl("http://www.xyz.com");
        return new OpenAPI()
               .info(new Info().title(title: "Employee APIs").description(description: "Description here..")
                        .version(version:"1.0").contact(contact)
                        .license(new License().name("2015-2021 XYZ LLC All Rights Reserved")));
```