

i2i Academy

Training Document

Topic	SWAGGER
Document Name	SWAGGER

Document Difficulty Level					
Beginner	Junior	Senior	Expert		

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Document History

Date	Author	Ver	Comments
05.03.2025	Murat Kağan Temel	1.0	Initial Draft



SWAGGER

Exercise SWAGGER:

Definiton: Create a layered Spring Boot RESTful application that provides basic CRUD operations for managing Customer data. The application should include OpenAPI-compliant API documentation using the <code>springdoc-openapi-starter-webmvc-ui</code> dependency. This dependency also enables Swagger UI, so no additional configuration is required.

You may choose to simulate database operations using in-memory data structures such as Map or List. Using a real database is not mandatory.

The application should expose endpoints for the following operations:

- Create a new customer
- Retrieve a customer by ID
- Retrieve all customers
- Update an existing customer
- Delete a customer

After completing the implementation, open the Swagger UI in your browser and share screenshots of the generated API documentation and the available endpoints. A sample CustomerDTO (DTO refers to Data Transfer Object) is shared in the next page.

```
public class CustomerDTO {
    @Schema(description = "Unique ID of the customer", example =
"1")
    private Long id;

    @NotBlank
    @Schema(description = "Full name of the customer", example =
"John Doe")
    private String name;

@Email
    @Schema(description = "Email address", example =
"john.doe@example.com")
    private String email;
}
```

SWAGGER:

```
© CustomerRepository.java
                                                                                                             A 2
   public CustomerDTO update(Long id, CustomerDTO customer) {    1usage
    CustomerApplication.java
                              © CustomerDTO.java
                                                     © CustomerRepository.java ×
import java.util.*;
```

public List<CustomerDTO> findAll() { 1usage

```
m pom.xml (Swagger) ×  © CustomerApplication.java ×  © CustomerDTO.java  © CustomerRepository.java  © Custom

package org.i2i;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

espringBootApplication

public class CustomerApplication {
 public static void main(String[] args) {
    SpringApplication.run(CustomerApplication.class, args);
 }

}

public static void main(String[] args) {
    SpringApplication.run(CustomerApplication.class, args);
    }
}
```

