



Codelab Comunicación sincrónica entre microservicios

Desarrollo de Software III

Jhojan Stiven Castaño Jejen-2259476

Universidad Del Valle

Sede Tuluá

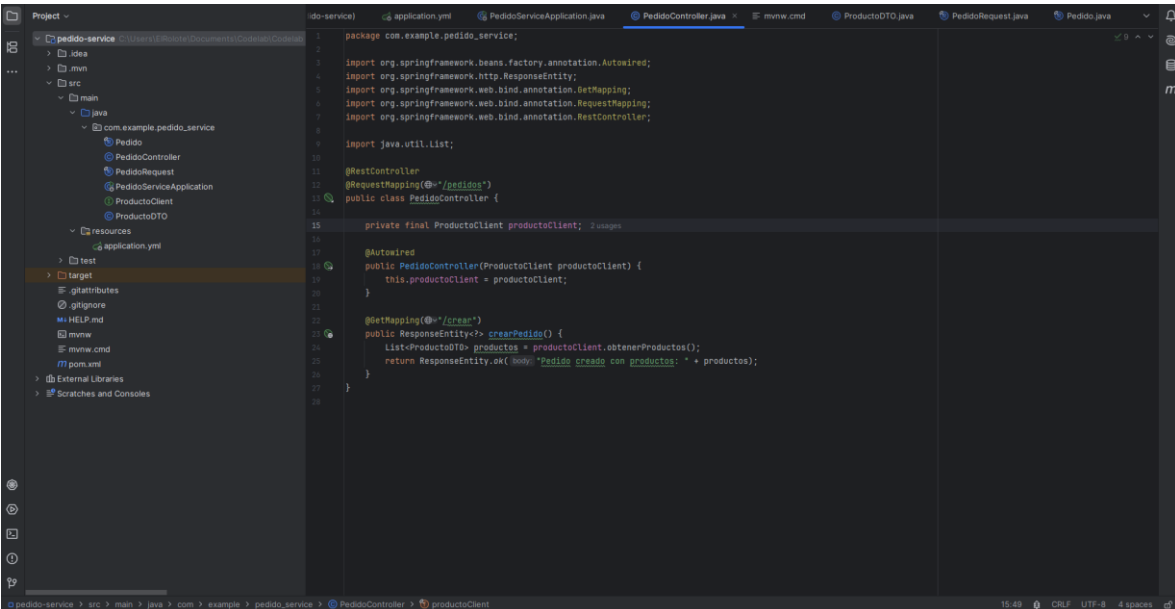
Septimo Semestre

2025

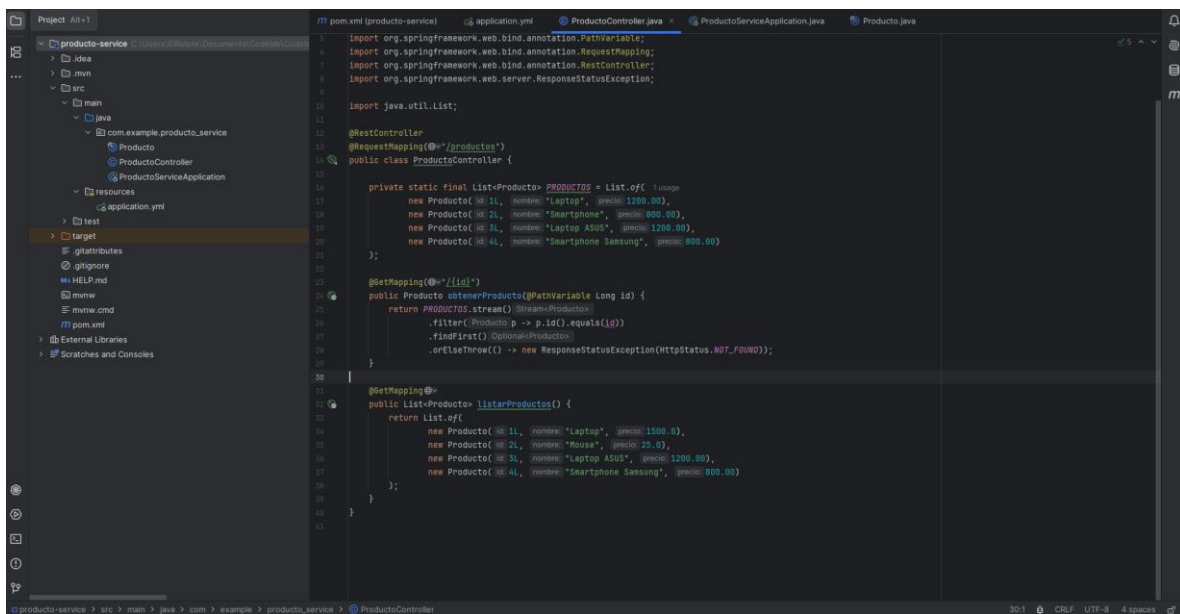
Evidencias sobre elaboración del codelab

Creacion del Eureka server

Creacion del pedido-service

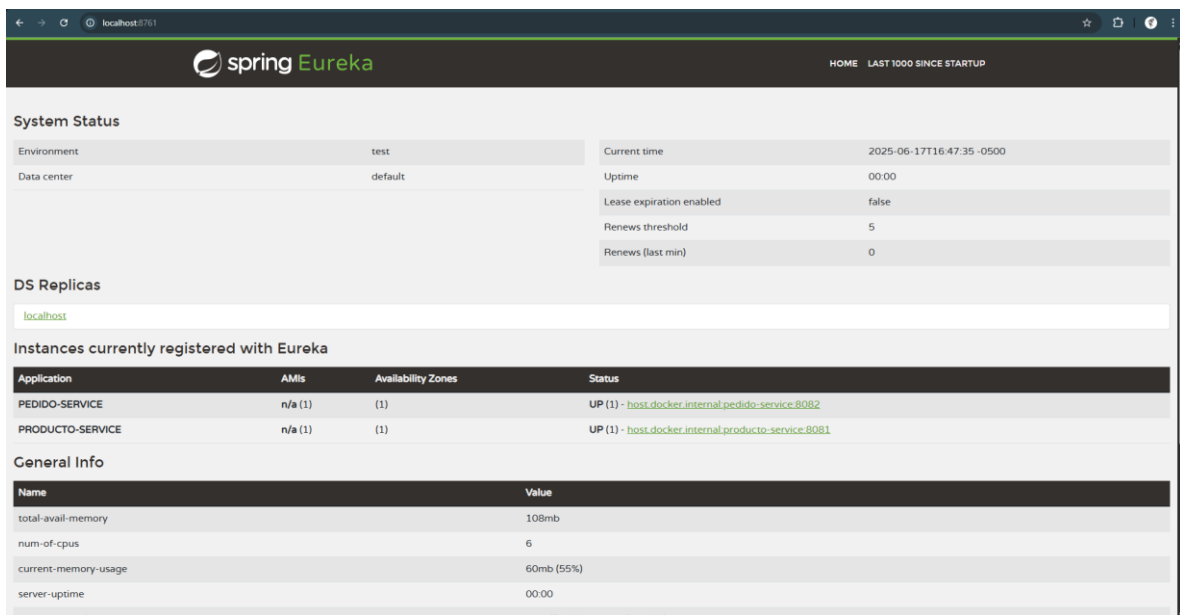


Creacion del producto-service



```
1 import org.springframework.web.bind.annotation.PathVariable;
2 import org.springframework.web.bind.annotation.RequestMapping;
3 import org.springframework.web.bind.annotation.RestController;
4 import org.springframework.web.server.ResponseStatusException;
5
6 import java.util.List;
7
8 @RestController
9 @RequestMapping("/products")
10 public class ProductController {
11
12     private static final List<Product> PRODUCTOS = List.of(
13         new Product(1L, "Laptop", 1200.00),
14         new Product(2L, "Smartphone", 800.00),
15         new Product(3L, "Laptop ASUS", 1200.00),
16         new Product(4L, "Smartphone Samsung", 800.00)
17     );
18
19     @GetMapping("/{id}")
20     public Product getProducts(@PathVariable Long id) {
21         return PRODUCTOS.stream()
22             .filter(p -> p.getId().equals(id))
23             .findFirst()
24             .orElseThrow(() -> new ResponseStatusException(HttpStatus.NOT_FOUND));
25     }
26
27     @GetMapping
28     public List<Product> listProducts() {
29         return List.of(
30             new Product(1L, "Laptop", 1200.00),
31             new Product(2L, "Smartphone", 800.00),
32             new Product(3L, "Laptop ASUS", 1200.00),
33             new Product(4L, "Smartphone Samsung", 800.00)
34         );
35     }
36 }
```

Funcionamiento del Eureka Server



spring Eureka

HOME LAST 1000 SINCE STARTUP

System Status

Environment	test	Current time	2025-06-17T16:47:35 -0500
Data center	default	Uptime	00:00
		Lease expiration enabled	false
		Renews threshold	5
		Renews (last min)	0

DS Replicas

localhost

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
PEDIDO-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal/pedido-service:8082
PRODUCTO-SERVICE	n/a (1)	(1)	UP (1) - host.docker.internal/producto-service:8081

General Info

Name	Value
total-avail-memory	108mb
num-of-cpus	6
current-memory-usage	60mb (55%)
server-uptime	00:00
springboot.version	https://localhost:8761/health

Llamado al postman

The screenshot shows the Postman interface for a GET request to `http://localhost:8082/pedidos/crear`. The request is successful, returning a `200 OK` status with a response time of 17 ms and a body size of 411 B. The response body is displayed in the 'Body' tab, showing a JSON array of products.

Query Params

Key	Value	Description
Key	Value	Description

Body (Raw)

```
1 Pedido creado con productos: [ProductoDTO{id=1, nombre='Laptop', precio=1500.0}, ProductoDTO{id=2, nombre='Mouse', precio=25.0}, ProductoDTO{id=3, nombre='Laptop ASUS', precio=1200.0}, ProductoDTO{id=4, nombre='Smartphone Samsung', precio=800.0}]
```