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Pathway: Becalos x TechnoReady.

Title of the Challenge: Spring and Spring Boot in Java for Web Applications.

Sprint: Sprint 5

TEST SUITE STRUCTURE:

```
src/test/java/com/example/sprint3/
├─ controller/
│   └─ OrderControllerTest.java
├─ service/
│   └─ OrderServiceTest.java
├─ repository/
│   └─ OrderRepositoryTest.java
└─ security/
    └─ SecurityTest.java
```

Unit tests: Validate individual methods and business rules (OrderServiceTest, OrderRepositoryTest).

Integration tests: Validate endpoints and full workflow (OrderControllerTest).

Security tests: Verify authentication and authorization (SecurityTest).

CHECKLIST

- ✓ Create, update, delete, and list orders (POST, PUT, DELETE, GET)
- ✓ Validation of required fields (@NotNull, @Positive)
- ✓ Auto-generation of ID
- ✓ Correct format and recording of orderDate
- ✓ HTTP Basic security (username and password)
- ✓ Error handling: 4xx for invalid inputs, 500 for unexpected errors
- ✓ Integration with in-memory H2 database
- ✓ Swagger UI doesn't need direct testing, but endpoints must work

COVERAGE SCENARIOS:

TYPE	SCENARIO	EXPECTED RESULT
Success	Create a valid order	HTTP 201
Success	List orders	HTTP 200
Edge	Create order	HTTP 400
Edge	Update non-existent order	HTTP 404
Failure	Access without authentication	HTTP 401
Failure	POST with explicit ID	Ignore ID

← → ↺ 🌐 localhost:8081/swagger-ui/index.html#/ 1.0 OAS 3.0

Order Service API (Digital NAO)

[v3/api-docs](#)

CRUD de órdenes para el equipo Digital NAO.

[Terms of service](#)
[Digital NAO Team - Website](#)
[Send email to Digital NAO Team](#)
[Apache 2.0](#)

Servers

http://localhost:8081 - Generated server url

Gestión de Pedidos

CRUD de órdenes para el equipo Digital NAO

- GET** /api/orders/{id} Obtener pedido por ID
- PUT** /api/orders/{id} Actualizar pedido por ID
- DELETE** /api/orders/{id} Eliminar el pedido por ID
- GET** /api/orders Obtener todos los pedidos
- POST** /api/orders Crear un nuevo pedido

POST /api/orders Crear un nuevo pedido

Registra una nueva orden en el sistema.

Parameters

No parameters

Request body **required**

application/json

Example Value | Schema

```
{
  "id": 0,
  "customerName": "string",
  "orderDate": "2025-10-22T04:12:29.125Z",
  "totalAmount": 0,
  "status": "string"
}
```

POST

/api/orders

Crear un nuevo pedido

Registra una nueva orden en el sistema.

Parameters

Cancel

Reset

No parameters

Request body required

application/json

```
{  "customerName": "Dana",  "orderDate": "2025-10-22T04:15:18.991Z",  "totalAmount": 500.23,  "status": "DELIVER"}  
```

Execute

Clear

POST

/api/orders

Crear un nuevo pedido

Registra una nueva orden en el sistema.

Parameters

Cancel

Reset

No parameters

Request body required

application/json

```
{  "id": 0,  "customerName": "Penelope",  "orderDate": "2025-10-22T04:01:28.668Z",  "totalAmount": 12,  "status": "PENDING"}  
```

Execute

GET

/api/orders

Obtener todos los pedidos

Devuelve una lista de todas las órdenes registradas.

Parameters

Cancel

No parameters

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8081/api/orders' \
  -H 'accept: */*'
```

Request URL

http://localhost:8081/api/orders

Server response

Code Details

200

Response body

```
{
  "id": 1,
  "customerName": "Siyeon",
  "orderDate": "2025-10-22T04:01:28.668",
  "totalAmount": 23,
  "status": "PENDING"
},
{
  "id": 2,
  "customerName": "Dana",
  "orderDate": "2025-10-22T04:15:18.991",
  "totalAmount": 506.23,
  "status": "DELIVER"
}
```

Response headers

Download

DELETE /api/orders/{id} Eliminar el pedido por ID

Devuelve aviso de eliminacion

Parameters

Cancel

Name	Description
id * required integer(\$int64) (path)	<input type="text" value="2"/>

Execute Clear

PUT /api/orders/{id} Actualizar pedido por ID

Actualiza el pedido

Parameters

Cancel Reset

Name	Description
id * required integer(\$int64) (path)	<input type="text" value="1"/>

Request body required

application/json

```
{
  "customerName": "Elizabeth",
  "orderDate": "2025-10-22T04:01:28.668",
  "totalAmount": 1450,
  "status": "Delivery"
}
```

Code

Details

200

Response body

```
{
  "id": 1,
  "customerName": "Elizabeth",
  "orderDate": "2025-10-22T04:01:28.668",
  "totalAmount": 1450,
  "status": "Delivery"
}
```

 Download

Response headers