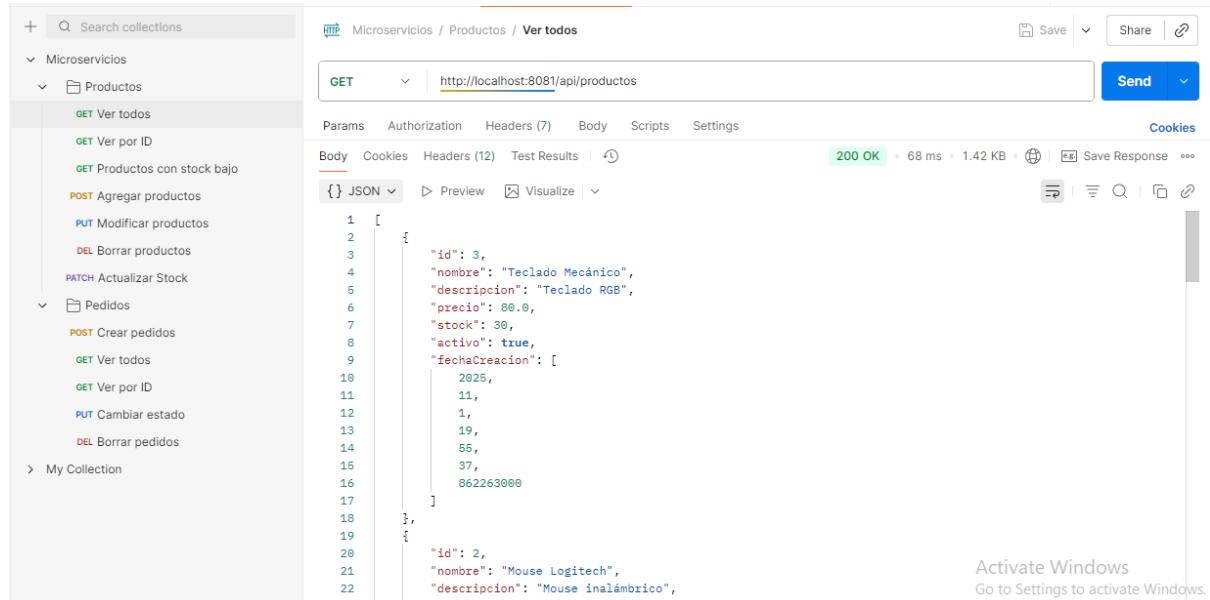


Este documento busca mostrar el funcionamiento y las pruebas realizadas para validar el funcionamiento del proyecto con microservicios que fue llevado a cabo. Para ello, se utilizó Postman para confirmar sus respuestas.

Se utilizó el perfil de dev para realizar estas mismas.

## Productos

GET <http://localhost:8081/api/productos>

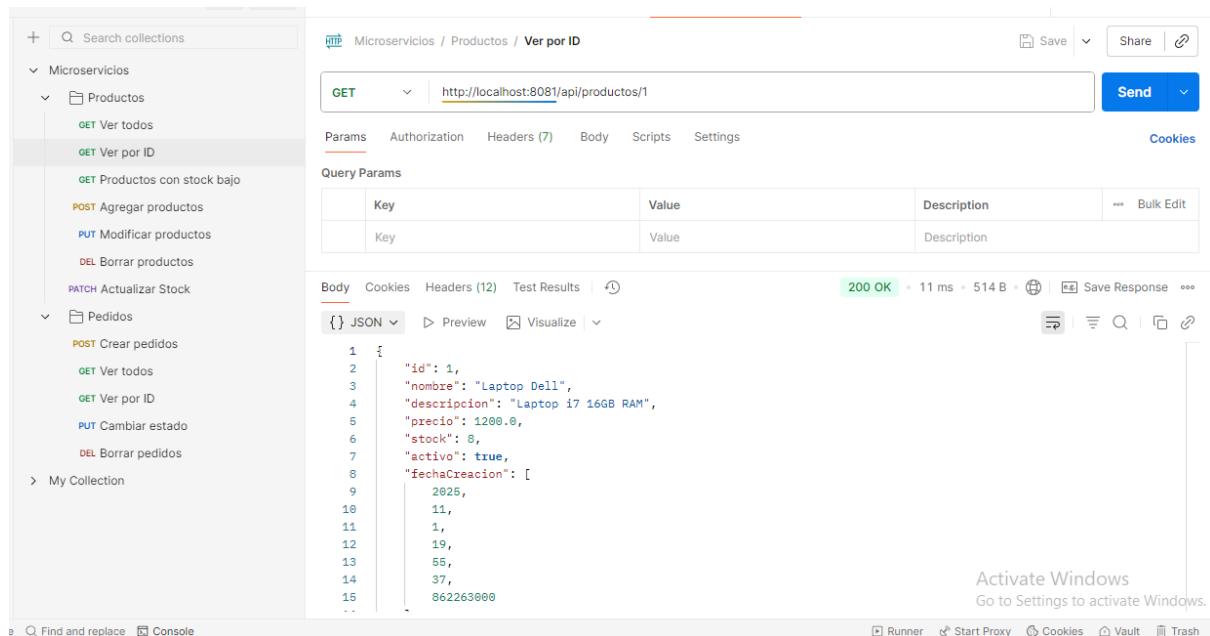


The screenshot shows a Postman collection named "Microservicios" with a "Productos" folder. Inside "Productos", there are several methods: "Ver todos" (GET), "Ver por ID" (GET), "Productos con stock bajo" (GET), "Aregar productos" (POST), "Modificar productos" (PUT), "Borrar productos" (DELETE), and "Actualizar Stock" (PATCH). The "Ver todos" method is selected and expanded. A GET request is made to <http://localhost:8081/api/productos>. The response is a 200 OK with a response time of 68 ms and a body size of 1.42 KB. The response body is a JSON array:

```
[{"id": 3, "nombre": "Teclado Mec\u00e1nico", "descripcion": "Teclado RGB", "precio": 80.0, "stock": 30, "activo": true, "fechaCreacion": [2025, 11, 1, 19, 55, 37, 862263000]}, {"id": 2, "nombre": "Mouse Logitech", "descripcion": "Mouse inal\u00e1mbrico", "precio": 50.0, "stock": 50, "activo": true, "fechaCreacion": [2025, 11, 1, 19, 55, 37, 862263000]}]
```

GET <http://localhost:8081/api/productos/{id}>

En caso de existir ese id:



The screenshot shows the same Postman collection and "Productos" folder. The "Ver por ID" method is selected and expanded. A GET request is made to <http://localhost:8081/api/productos/1>. The response is a 200 OK with a response time of 11 ms and a body size of 514 B. The response body is a JSON object:

```
{"id": 1, "nombre": "Laptop Dell", "descripcion": "Laptop i7 16GB RAM", "precio": 1200.0, "stock": 8, "activo": true, "fechaCreacion": [2025, 11, 1, 19, 55, 37, 862263000]}
```

En caso de no existir el id:

The screenshot shows the Postman interface with a collection named "Microservicios". A request is made to `http://localhost:8081/api/productos/100` using the GET method. The response status is 200 OK, but the JSON body indicates an error: `{"status": 400, "message": "Producto no encontrado con id: 100"}`.

GET <http://localhost:8081/api/productos/bajo-stock/{stock}>

The screenshot shows the Postman interface with a collection named "Microservicios". A request is made to `http://localhost:8081/api/productos/bajo-stock/5` using the GET method. The response status is 200 OK, and the JSON body contains two products with low stock: `[{"id": 6, "nombre": "Laptop Dell", "stock": 0}, {"id": 5, "nombre": "Laptop Dell", "stock": 0}]`.

POST <http://localhost:8081/api/productos>

Funcionamiento correcto:

The screenshot shows the Postman interface with a left sidebar containing a collection named 'Microservicios'. Under the 'Productos' section, the 'Agregar productos' endpoint is selected. The main area shows a POST request to `http://localhost:8081/api/productos`. The request body is a JSON object:

```

1 {
2   "nombre": "Laptop Dell",
3   "descripcion": "Laptop i7 16GB RAM",
4   "precio": 1250.0,

```

The response status is **201 Created**, with a response time of 34 ms and a response size of 520 B. The response body is:

```

1 {
2   "id": 9,
3   "nombre": "Laptop Dell",
4   "descripcion": "Laptop i7 16GB RAM",
5   "precio": 1250.0,
6   "stock": 20,
7   "activo": true,
8   "fechaCreacion": [
9     2025,
10     11,
11     1,
12     19,
13     65,
14     37,
15     862263000

```

Activate Windows  
Go to Settings to activate Windows.

En caso se coloque un stock menor a 0:

The screenshot shows the Postman interface with the same collection and endpoint selection as the previous screenshot. The request body is identical:

```

1 {
2   "nombre": "Laptop Dell",
3   "descripcion": "Laptop i7 16GB RAM",
4   "precio": 1250.0,
5   "stock": -20,
6   "activo": true,
7   "fechaCreacion": [
8     2025,
9     11,
10    1,
11    19,
12    65,
13    37,
14    862263000

```

The response status is **200 OK**, with a response time of 47 ms and a response size of 422 B. The response body is:

```

1 {
2   "status": 400,
3   "message": "Valor inválido para el campo stock"
4 }

```

Activate Windows  
Go to Settings to activate Windows.

En caso se coloque un precio menor a 0:

Callán's Workspace

New Import

GET http://localhost:8888/m • POST Agregar productos • +

No environment

HTTP Microservicios / Productos / Agregar productos

POST http://localhost:8081/api/productos

Params Authorization Headers (9) Body Scripts Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Schema Beautify

```

2 "nombre": "Laptop Dell",
3 "descripcion": "Laptop i7 16GB RAM",
4 "precio": 1250.0,
5 "stock": 20,

```

Body Cookies Headers (12) Test Results 200 OK 15 ms 423 B Save Response

{} JSON Preview Visualize

```

1 {
2   "status": 400,
3   "message": "Valor inválido para el campo precio"
4 }

```

Activate Windows  
Go to Settings to activate Windows.

**PUT http://localhost:8081/api/productos/{id}**

Callán's Workspace

New Import

GET http://localhost:8888/m • PUT Modificar productos • +

No environment

HTTP Microservicios / Productos / Modificar productos

PUT http://localhost:8081/api/productos/8

Params Authorization Headers (9) Body Scripts Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Schema Beautify

```

1 {
2   "nombre": "Laptop Dell",
3   "descripcion": "Laptop i7 16GB RAM",
4   "precio": 1250.0,
5   "stock": 10,
6   "activo": true,
7   "fechaCreacion": [
8     2025,
9     11,

```

Body Cookies Headers (12) Test Results 200 OK 20 ms 515 B Save Response

{} JSON Preview Visualize

```

1 {
2   "id": 8,
3   "nombre": "Laptop Dell",
4   "descripcion": "Laptop i7 16GB RAM",
5   "precio": 1250.0,
6   "stock": 10,
7   "activo": true,
8   "fechaCreacion": [
9     2025,
10    11,

```

Activate Windows  
Go to Settings to activate Windows.

**DELETE http://localhost:8081/api/productos/{id}**

The screenshot shows the Postman interface with the following details:

- Collection:** Callán's Workspace
- Request Type:** DELETE
- URL:** http://localhost:8081/api/productos/9
- Headers:** (7)
- Body:** (empty)
- Response Status:** 204 No Content
- Response Time:** 6 ms
- Response Size:** 316 B

PATCH <http://localhost:8081/api/productos/{id}/stock>

En caso de enviar una cantidad válida:

The screenshot shows the Postman interface with the following details:

- Collection:** Callán's Workspace
- Request Type:** PATCH
- URL:** http://localhost:8081/api/productos/7/stock
- Headers:** (11)
- Body:** (JSON)
- Body Content:**

```
1 {
2   "cantidad": 1
3 }
```
- Response Status:** 200 OK
- Response Time:** 7 ms
- Response Size:** 327 B

En caso de enviar una cantidad que supere al stock:

The screenshot shows the Postman interface with the following details:

- Collection:** Callán's Workspace
- Request Type:** PATCH
- URL:** http://localhost:8081/api/productos/5/stock
- Body:** JSON (raw) - {"cantidad": 100}
- Response Status:** 200 OK
- Response Body:** {"status": 400, "message": "Stock insuficiente para el producto 5"}

## Pedidos:

GET <http://localhost:8082/api/pedidos>

The screenshot shows the Postman interface with the following details:

- Collection:** Callán's Workspace
- Request Type:** GET
- URL:** http://localhost:8082/api/pedidos
- Response Status:** 200 OK
- Response Body:** (JSON array) - A list of two orders, each with id, cliente, fecha (array of integers), total, and estado.

```

[{"id": 1, "cliente": "Juan Pérez", "fecha": [2025, 11, 2, 16, 1, 27], "total": 2425.0, "estado": "PROCESADO"}, {"id": 2, "cliente": "Juan Pérez", "fecha": [2025, 11], "total": 0.0, "estado": "PENDIENTE"}]
  
```

GET <http://localhost:8082/api/pedidos/{id}>

```

1 {
2   "id": 1,
3   "cliente": "Juan Pérez",
4   "fecha": [
5     2025,
6     11,
7     2,
8     16,
9     1,
10    27,
11    2023965000
12  ],
13  "total": 2425.0,
14  "estado": "PROCESADO",
15  "detalles": [
16    {
17      "productoId": 1,
18      "cantidad": 2
19    },
20    {
21      "productoId": 2,
22      "cantidad": 1
23  }
24]

```

Activate Windows  
Go to Settings to activate Windows.

**POST <http://localhost:8082/api/pedidos>**

Funcionamiento correcto:

```

1 {
2   "cliente": "Juan Pérez",
3   "fecha": "2025-11-02T15:30:00",
4   "estado": "PENDIENTE"
5 }

```

```

1 {
2   "id": 8,
3   "cliente": "Juan Pérez",
4   "fecha": [
5     2025,
6     11,
7     3,
8     0,
9     44,
10    34,
11    105284300
12  ],
13  "total": 2500.0,
14  "estado": "PENDIENTE",
15  "detalles": [
16    {
17      "productoId": 1,
18      "cantidad": 1
19    }
20  ]
21 }

```

Activate Windows  
Go to Settings to activate Windows.

Con cantidad inválida:

Callán's Workspace

POST http://localhost:8082/api/pedidos

Params Authorization Headers (9) Body Scripts Settings

Body (JSON)

```
{
  "productoId": 7,
  "cantidad": -2
}
```

200 OK 33 ms 425 B Save Response

Activate Windows  
Go to Settings to activate Windows.

PUT http://localhost:8082/api/pedidos/6/estado

Callán's Workspace

PUT http://localhost:8082/api/pedidos/6/estado

Params Authorization Headers (9) Body Scripts Settings

Body (JSON)

```
{
  "estado": "CANCELADO"
}
```

200 OK 12 ms 468 B Save Response

Activate Windows  
Go to Settings to activate Windows.

DELETE http://localhost:8082/api/pedidos/7

Callán's Workspace

New Import

GET http://loc. ● PATCH Actuali. ● GET Ver todo: ● GET Ver por I: ● POST Crear pe: ● PUT Cambiar e: ● DEL Borrar pec: + ⌂ No environment ⌂

+ Search collections

Microservicios

Productos

GET Ver todos

GET Ver por ID

GET Productos con stock bajo

POST Agregar productos

PUT Modificar productos

DEL Borrar productos

PATCH Actualizar Stock

Pedidos

POST Crear pedidos

GET Ver todos

GET Ver por ID

PUT Cambiar estado

DEL Borrar pedidos

My Collection

HTTP Microservicios / Pedidos / Borrar pedidos

DELETE http://localhost:8082/api/pedidos/7

Save Share ⌂

Send

Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	... Bulk Edit
Key	Value	Description	...

Body Cookies Headers (10) Test Results 204 No Content 7 ms 316 B ⌂ Save Response ...

Raw Preview Visualize 1

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