

# **Universidad Mariano Gálvez de Guatemala**

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**Apellidos:**

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**Carrera:**

Ingeniería en Sistemas

**Curso:**

Desarrollo Web

**Catedrático:**

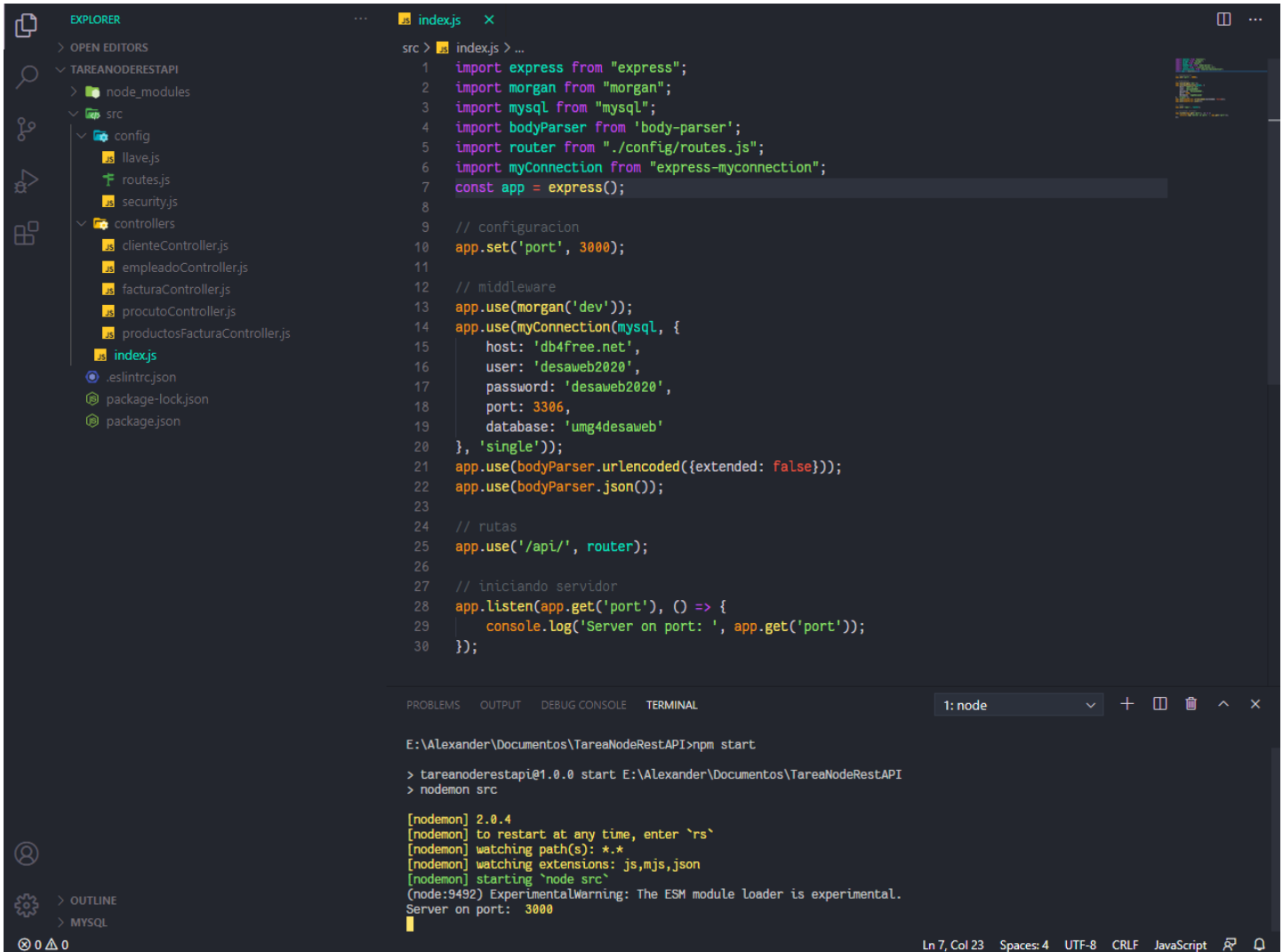
Ing. Carlos Hernández

**Ciclo:**

2020

## Iniciar servidor API REST

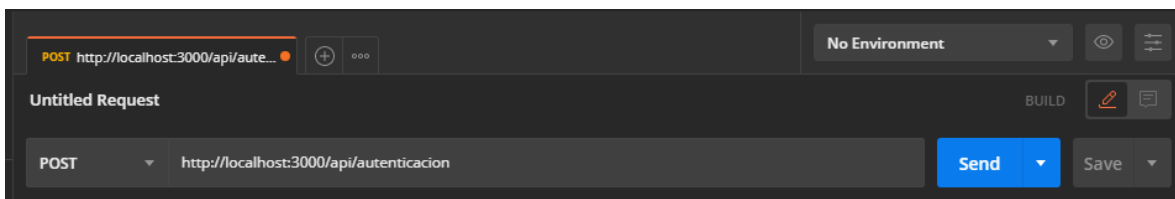
1. Ejecutar el comando **npm start**
2. El servicio correrá en el **puerto 3000**



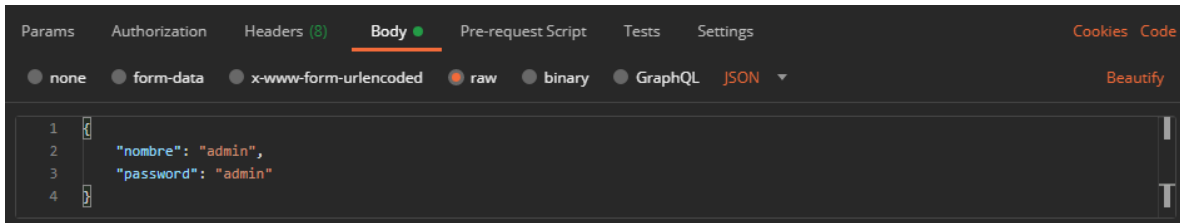
El cliente que se utilizará para consumir la Rest Api en esta guía será **Postman**.

## Autenticarse para consumir los endpoints

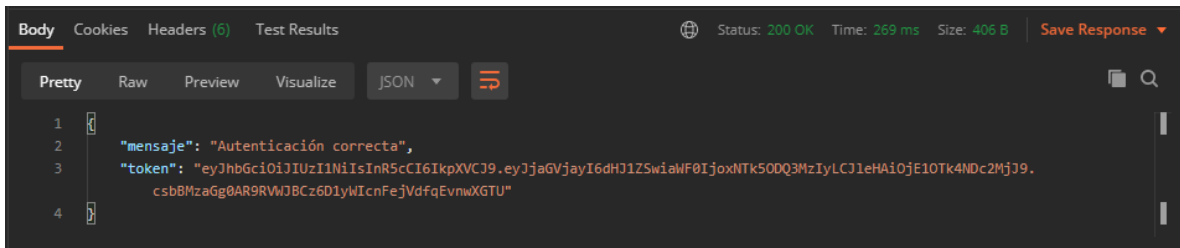
1. Ir al endpoint <http://localhost:3000/api/autenticacion> y utilizar el metodo POST



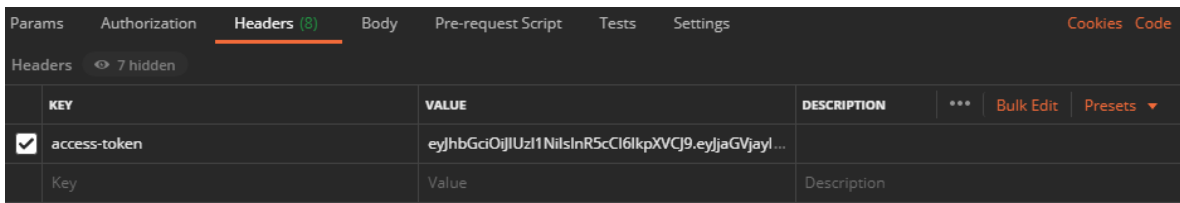
2. Enviar en el body como json el usuario para autenticarse, los usuarios validos son los que se encuentran en la base de datos “umg4desaweb” en la tabla usuarios



3. Si el usuario es válido recibirá un token valido por 5 minutos



El token generado en estos pasos debe enviarse en el header para poder consumir cada endpoint



## Endpoint Clientes

### 1. <http://localhost:3000/api/clientes> método **GET**

GET <http://localhost:3000/api/clientes> Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

KEY	VALUE	DESCRIPTION	***	Bulk Edit	Presets
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...				
Key	Value	Description			

Body Cookies Headers (6) Test Results Status: 200 OK Time: 167 ms Size: 659 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "id": 1,
4     "nombre": "Homero Simpson",
5     "direccion": "ciudad 1",
6     "nit": "123212-4",
7     "creado_por": ""
8   },
9   {
10    "id": 2,
11    "nombre": "Gerson Arisai Ramos",
12    "direccion": "Jalapa",
13    "nit": "123456789",
14    "creado_por": "0907-17-12139"
15  },
16  {
17    "id": 4,
18    "nombre": "Jennifer Paola Cordon Garcia",
19    "direccion": "Jalapa, Guatemala",
20    "nit": "8739823.0",
21    "creado_por": "0907-17-23013"
22  },
23  {
24    "id": 5,
25    "nombre": "Julio Alexander de Leon Loo1",
```

### 2. <http://localhost:3000/api/clientes/:id> método **GET**

GET <http://localhost:3000/api/clientes/5> Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

KEY	VALUE	DESCRIPTION	***	Bulk Edit	Presets
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...				
Key	Value	Description			

Body Cookies Headers (6) Test Results Status: 200 OK Time: 163 ms Size: 331 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 5,
3   "nombre": "Julio Alexander de Leon Loo1",
4   "direccion": "Jalapa",
5   "nit": "987654321",
6   "creado_por": "0907-17-11405"
7 }
8
9
```

### 3. <http://localhost:3000/api/clientes> método **POST**

POST <http://localhost:3000/api/clientes> Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "nombre": "Nombre de prueba",
3   "direccion": "Jalapa",
4   "nit": "987654321",
5   "creado_por": "0907-17-11405"
6 }
```

Body Cookies Headers (6) Test Results Status: 200 OK Time: 836 ms Size: 224 B Save Response

Pretty Raw Preview Visualize HTML

1 Creado exitosamente

### 4. <http://localhost:3000/api/clientes/:id> método **PUT**

PUT <http://localhost:3000/api/clientes/9> Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "nombre": "Cambio Nombre de prueba",
3   "direccion": "Jalapa",
4   "nit": "987654321",
5   "creado_por": "0907-17-11405"
6 }
```

Body Cookies Headers (6) Test Results Status: 200 OK Time: 308 ms Size: 229 B Save Response

Pretty Raw Preview Visualize HTML

1 Actualizado exitosamente

### 5. <http://localhost:3000/api/clientes/:id> método **DELTE**

DELETE <http://localhost:3000/api/clientes/9> Send Save

Params Authorization **Headers (7)** Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

	KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...				
	Key	Value	Description			

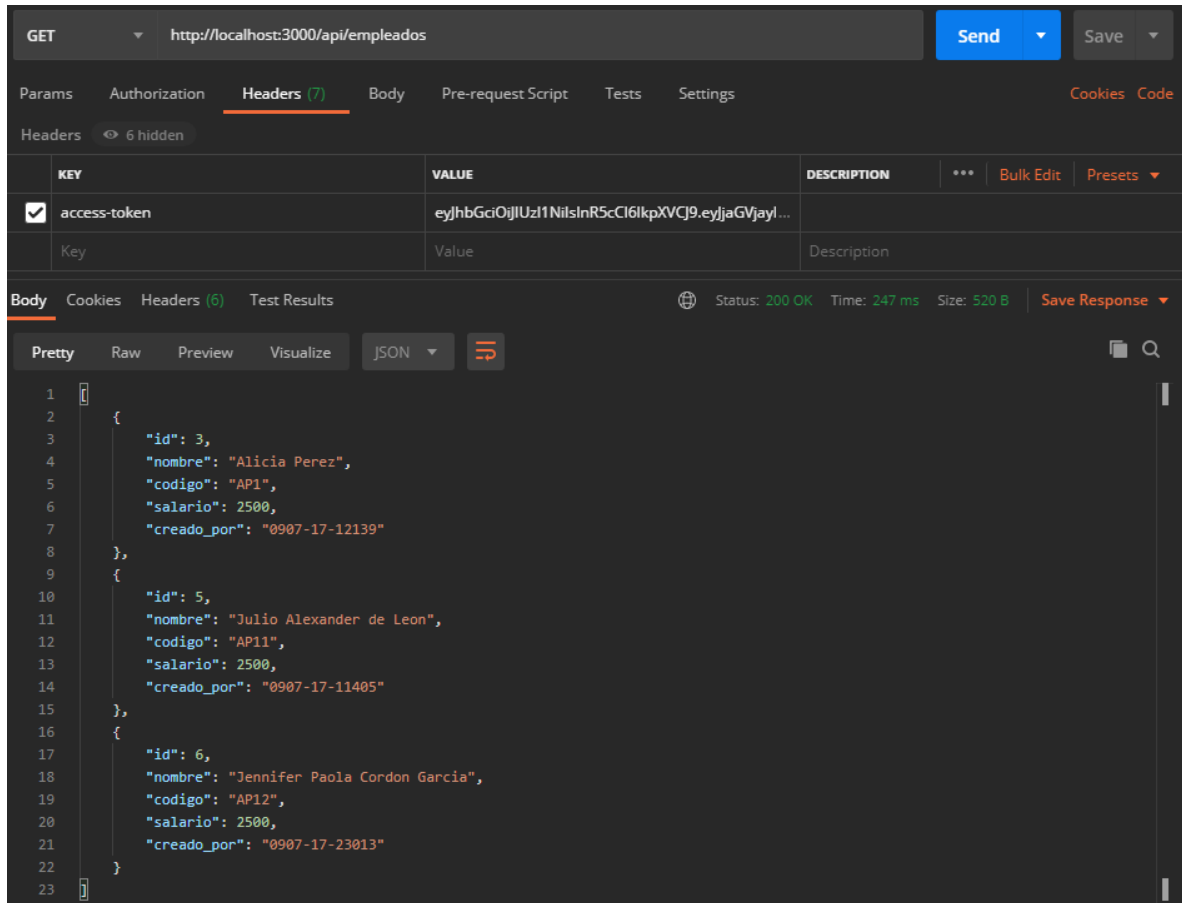
Body Cookies Headers (6) Test Results Status: 200 OK Time: 256 ms Size: 227 B Save Response

Pretty Raw Preview Visualize HTML

1 Eliminado exitosamente

## Endpoint Empleados

### 1. <http://localhost:3000/api/empleados> método **GET**



GET <http://localhost:3000/api/empleados> Send Save

Params Authorization **Headers (7)** Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

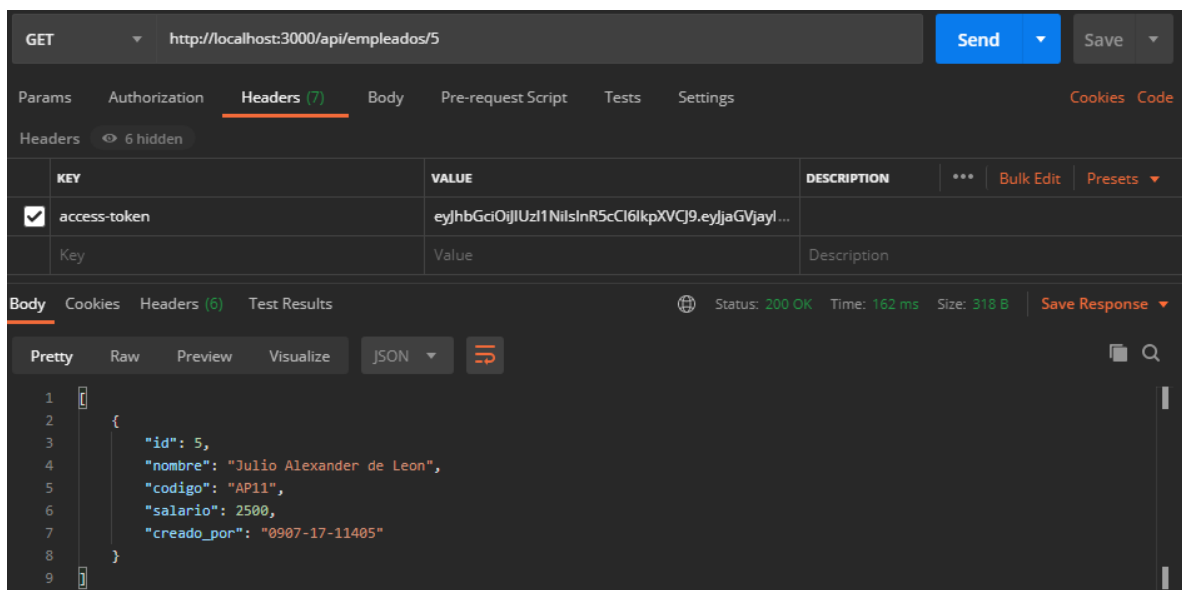
KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...				
Key	Value	Description			

Body Cookies Headers (6) Test Results Status: 200 OK Time: 247 ms Size: 520 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 3,
4     "nombre": "Alicia Perez",
5     "codigo": "AP1",
6     "salario": 2500,
7     "creado_por": "0907-17-12139"
8   },
9   {
10    "id": 5,
11    "nombre": "Julio Alexander de Leon",
12    "codigo": "AP11",
13    "salario": 2500,
14    "creado_por": "0907-17-11405"
15  },
16  {
17    "id": 6,
18    "nombre": "Jennifer Paola Cordon Garcia",
19    "codigo": "AP12",
20    "salario": 2500,
21    "creado_por": "0907-17-23013"
22  }
23 }
```

### 2. <http://localhost:3000/api/empleados/:id> método **GET**



GET <http://localhost:3000/api/empleados/5> Send Save

Params Authorization **Headers (7)** Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

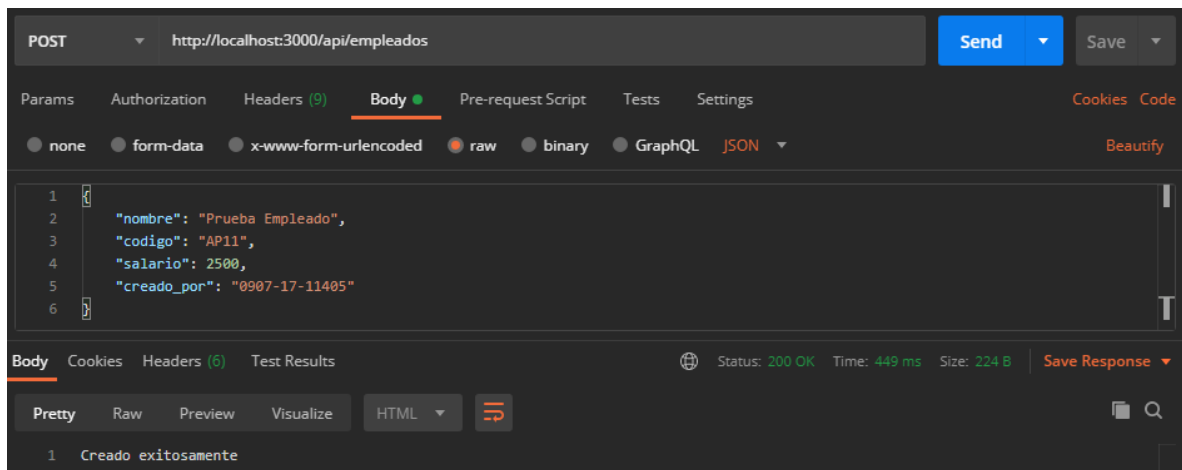
KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...				
Key	Value	Description			

Body Cookies Headers (6) Test Results Status: 200 OK Time: 162 ms Size: 318 B Save Response

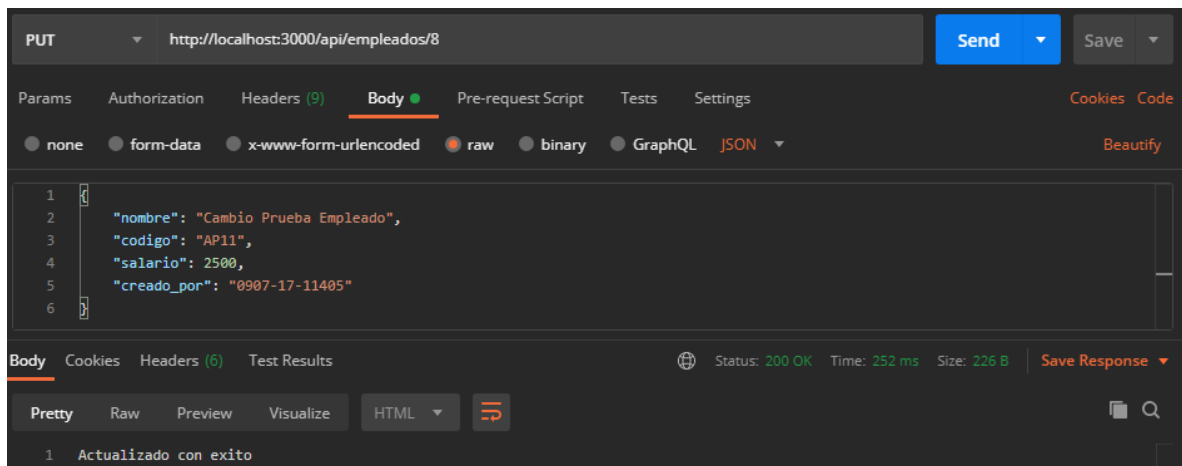
Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 5,
4     "nombre": "Julio Alexander de Leon",
5     "codigo": "AP11",
6     "salario": 2500,
7     "creado_por": "0907-17-11405"
8   }
9 }
```

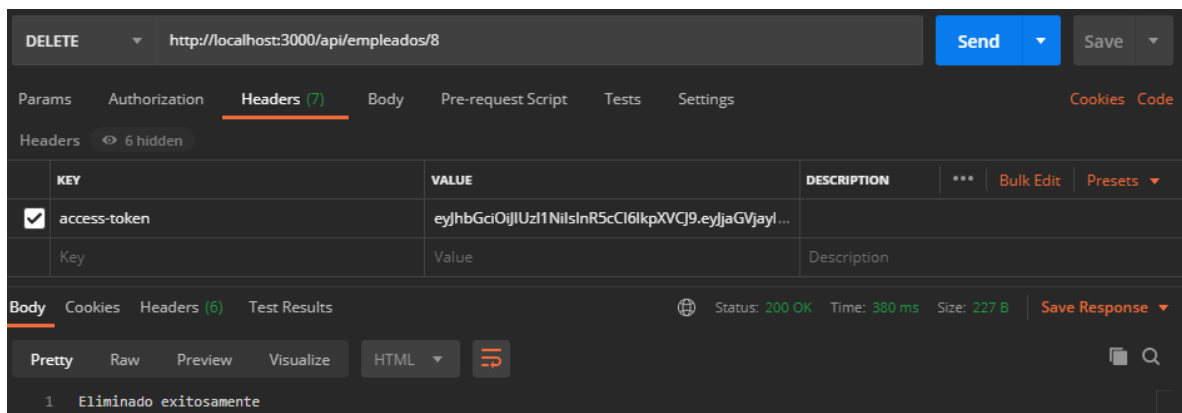
3. <http://localhost:3000/api/empleados> método **POST**



4. <http://localhost:3000/api/empleados/:id> método **PUT**



5. <http://localhost:3000/api/empleados/:id> método **DELETE**



## Endpoint Productos

### 1. <http://localhost:3000/api/productos> método **GET**

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:3000/api/productos>
- Headers:** 7 headers, including an `access-token` with a long value.
- Status:** 200 OK
- Time:** 735 ms
- Size:** 599 B
- Body:** JSON array of 4 products.

```
1 {
2   {
3     "id": 1,
4     "nombre": "producto 1",
5     "precio": 100,
6     "creado_por": ""
7   },
8   {
9     "id": 2,
10    "nombre": "producto 2",
11    "precio": 50,
12    "creado_por": ""
13  },
14  {
15    "id": 3,
16    "nombre": "producto 3",
17    "precio": 75,
18    "creado_por": ""
19  },
20  {
21    "id": 4,
22    "nombre": "Manzanas",
23    "precio": 3,
24    "creado_por": "0907-17-12139"
25  },
26 }
```

### 2. <http://localhost:3000/api/productos/:id> método **GET**

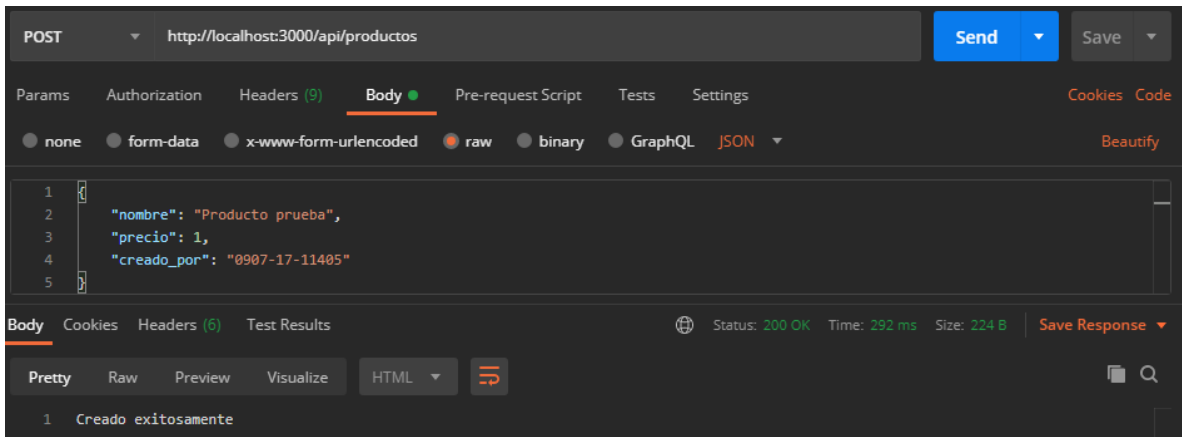
The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** <http://localhost:3000/api/productos/10>
- Headers:** 7 headers, including an `access-token` with a long value.
- Status:** 200 OK
- Time:** 171 ms
- Size:** 297 B
- Body:** JSON object for a single product.

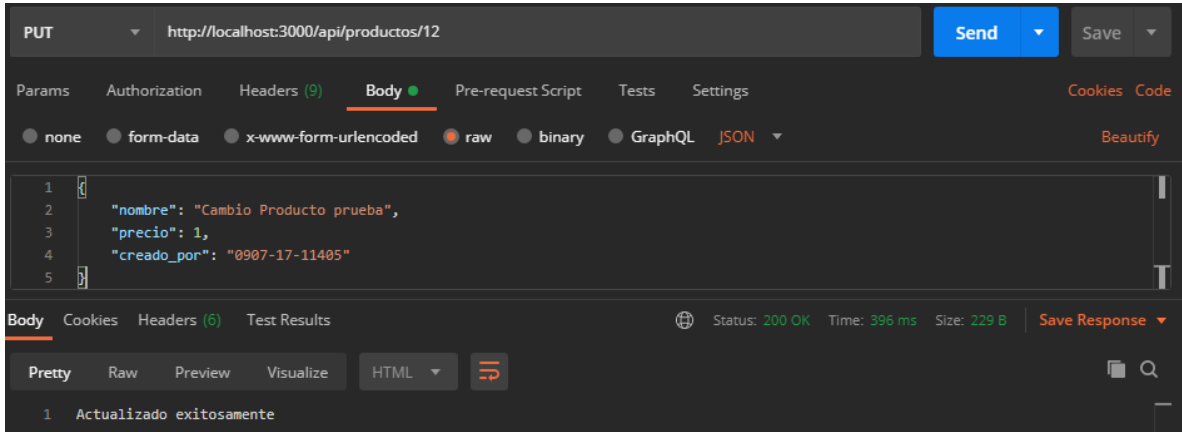
```
1 {
2   "id": 10,
3   "nombre": "Trotrix sabor barbacoa",
4   "precio": 1,
5   "creado_por": "0907-17-11405"
6 }
```



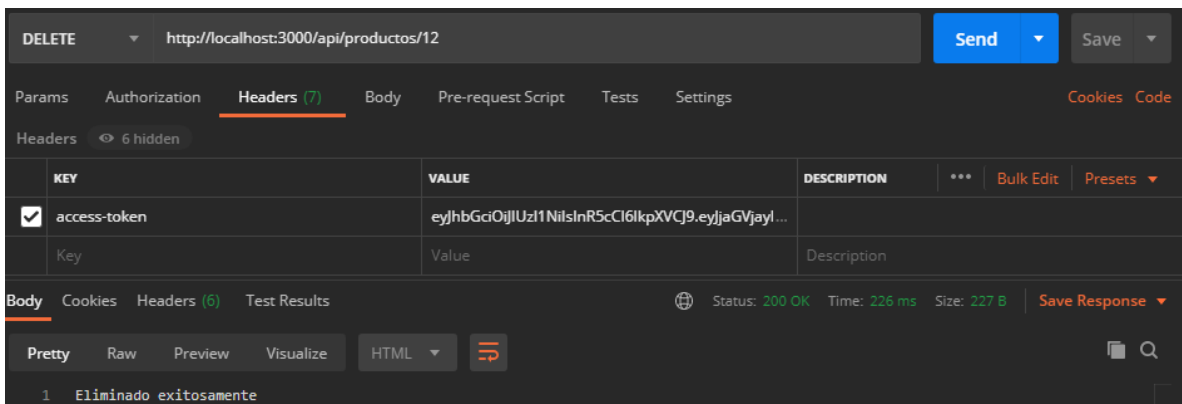
3. <http://localhost:3000/api/productos> método **POST**



4. <http://localhost:3000/api/productos/:id> método **PUT**



5. <http://localhost:3000/api/productos/:id> método **DELETE**



## Endpoint Facturas

1. <http://localhost:3000/api/clientes/:id/facturas> método GET

GET <http://localhost:3000/api/clientes/5/facturas> Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...	
Key	Value	Description

Body Cookies Headers (6) Test Results Status: 200 OK Time: 172 ms Size: 407 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 5,
4     "cliente_id": "5",
5     "empleado_id": 5,
6     "creado": "2020-09-11T06:00:00.000Z",
7     "estado": "PROCESO"
8   },
9   {
10    "id": 6,
11    "cliente_id": "5",
12    "empleado_id": 5,
13    "creado": "2020-09-11T06:00:00.000Z",
14    "estado": "CREADO"
15  }
16 }
```

2. <http://localhost:3000/api/empleados/:id/facturas> método GET

GET <http://localhost:3000/api/empleados/5/facturas> Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...	
Key	Value	Description

Body Cookies Headers (6) Test Results Status: 200 OK Time: 165 ms Size: 407 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 5,
4     "cliente_id": "5",
5     "empleado_id": 5,
6     "creado": "2020-09-11T06:00:00.000Z",
7     "estado": "PROCESO"
8   },
9   {
10    "id": 6,
11    "cliente_id": "5",
12    "empleado_id": 5,
13    "creado": "2020-09-11T06:00:00.000Z",
14    "estado": "CREADO"
15  }
16 }
```

### 3. <http://localhost:3000/api/facturas/:id> método **GET**

GET <http://localhost:3000/api/facturas/5> Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...	
Key	Value	Description

Body Cookies Headers (6) Test Results Status: 200 OK Time: 161 ms Size: 310 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 5,
3   "cliente_id": "5",
4   "empleado_id": 5,
5   "creado": "2020-09-11T06:00:00.000Z",
6   "estado": "PROCESO"
7 }
```

### 4. <http://localhost:3000/api/facturas> método **POST**

POST <http://localhost:3000/api/facturas> Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "cliente_id": "5",
3   "empleado_id": 5,
4   "creado": "2020-09-11",
5   "estado": "PROCESO"
6 }
```

Body Cookies Headers (6) Test Results Status: 200 OK Time: 233 ms Size: 224 B Save Response

Pretty Raw Preview Visualize HTML

```
1 Creado exitosamente
```

### 5. <http://localhost:3000/api/facturas/:id> método **PUT**

PUT <http://localhost:3000/api/facturas/7> Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "cliente_id": "5",
3   "empleado_id": 5,
4   "creado": "2020-09-10",
5   "estado": "PROCESO"
6 }
```

Body Cookies Headers (6) Test Results Status: 200 OK Time: 283 ms Size: 229 B Save Response

Pretty Raw Preview Visualize HTML

```
1 Actualizado exitosamente
```

6. <http://localhost:3000/api/facturas/:id> método **PATCH**

The screenshot shows a REST client interface with the following details:

- Method:** PATCH
- URL:** http://localhost:3000/api/facturas/7
- Body:**

```
{  "estado": "CREADO"}
```
- Response:** Status: 200 OK, Time: 163 ms, Size: 229 B. The response body is: 

```
1 Actualizado exitosamente
```

7. <http://localhost:3000/api/facturas/:id> método **DELETE**

The screenshot shows a REST client interface with the following details:

- Method:** DELETE
- URL:** http://localhost:3000/api/facturas/7
- Headers:**

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...	
Key	Value	Description
- Response:** Status: 200 OK, Time: 168 ms, Size: 225 B. The response body is: 

```
1 Anulada exitosamente
```

## Endpoint Productos Factura

1. <http://localhost:3000/api/facturas/:id/productos> método GET

GET <http://localhost:3000/api/facturas/5/productos> Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Headers 6 hidden

KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> access-token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjaGVjayl...				
Key	Value	Description			

Body Cookies Headers (6) Test Results Status: 200 OK Time: 236 ms Size: 437 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 5,
4     "cliente_id": "5",
5     "empleado_id": 5,
6     "nombre": "Trotrix sabor barbacoa",
7     "precio": 1,
8     "cantidad": 5,
9     "subtotal": 5
10  },
11  {
12    "id": 5,
13    "cliente_id": "5",
14    "empleado_id": 5,
15    "nombre": "Trotrix sabor limon",
16    "precio": 1,
17    "cantidad": 7,
18    "subtotal": 7
19  }
20 }
```

2. <http://localhost:3000/api/facturas/:id/detalle> método POST

POST <http://localhost:3000/api/facturas/5/detalle> Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "producto_id": 1,
3   "cantidad": 1,
4   "subtotal": 100,
5   "creado_por": "0907-17-11405"
6 }
```

Body Cookies Headers (6) Test Results Status: 200 OK Time: 284 ms Size: 224 B Save Response

Pretty Raw Preview Visualize HTML

```
1 Creado exitosamente
```

3. [http://localhost:3000/api/facturas/:id/detalle?id\\_producto](http://localhost:3000/api/facturas/:id/detalle?id_producto) método DELETE

DELETE [http://localhost:3000/api/facturas/5/detalle?id\\_producto=1](http://localhost:3000/api/facturas/5/detalle?id_producto=1) Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> id_producto	1			
Key	Value	Description		

Body Cookies Headers (6) Test Results Status: 200 OK Time: 164 ms Size: 227 B Save Response

Pretty Raw Preview Visualize HTML

```
1 Eliminado exitosamente
```