

C4 - Desenvolupament backend

TA27 - Spring REST JWT

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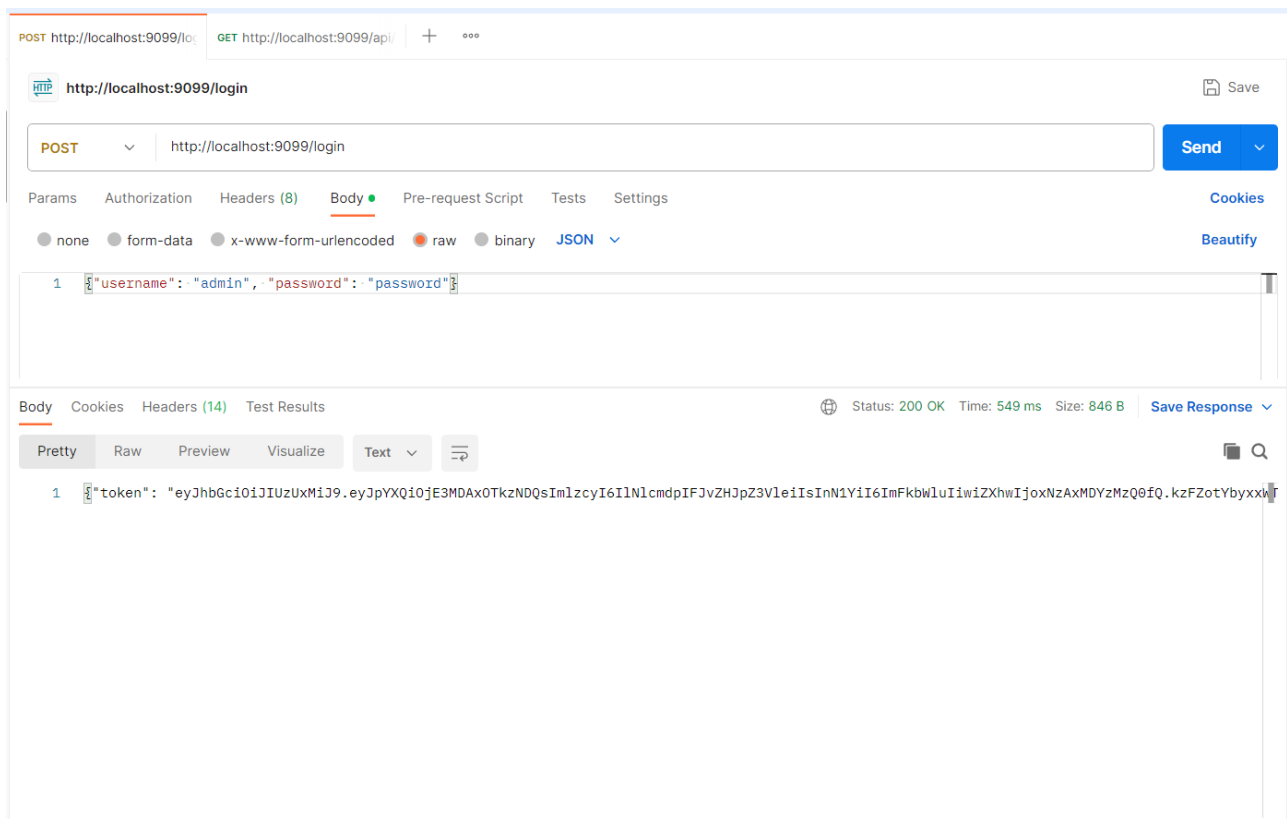
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Obtención del Token para hacer peticiones:

Para ver el proceso de obtención del token tal y como está programado en estas APIs hay que tener en cuenta que tiene que existir un usuario, por lo cual lo introduciremos manualmente con el siguiente código SQL en MySQL Workbench.

```
-- Insert of first user
INSERT INTO usuario (username, `password`, role) VALUES
('admin', '$2a$10$qL4eqIngUC4eXzi9yymeMehNrEcTtBVuMQdk5kpwNolQOqHkMy8o52', 'admin');
```

La contraseña es el hash de la palabra password, por lo tanto, realizaremos la siguiente petición tipo POST para obtener el Token y así poder utilizar la API.



Capturas ejercicio 1:

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

- Request Bar:** Method: GET, URL: http://localhost:9099/api/piezas. A "Send" button is on the right.
- Authorization Tab:** Type: Bearer Token. Token: eyJhbGciOiJIUzUxMiJ9.eyJpYXQiOiJlE3MDA...
- Body Tab:** Status: 200 OK, Time: 89 ms, Size: 885 B. A "Save Response" button is on the right.
- Response Body:** A JSON array of 4 objects, each with "id" and "nombre" fields.

```
1  {
2    "id": 1,
3    "nombre": "PiezaA"
4  },
5  {
6    "id": 2,
7    "nombre": "PiezaB"
8  },
9  {
10   "id": 3,
11   "nombre": "PiezaC"
12 },
13 {
14   "id": 4,
15   "nombre": "PiezaD"
16 }
```

Capturas ejercicio 2:

POST http://localhost:9099/lo GET http://localhost:9099/api/ + ...

HTTP **http://localhost:9099/api/cientificos** Save

GET http://localhost:9099/api/cientificos Send

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

Type Bearer Token Token eyJhbGciOiJIUzUxMiJ9.eyJpYXQiOiJlE3MDA...

The authorization header will be automatically generated when you send the request.
[Learn more about authorization](#)

Body Cookies Headers (18) Test Results Status: 200 OK Time: 111 ms Size: 1.07 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "dni": "1234567A",
4     "nomApels": "Sergi Rodriguez Utge"
5   },
6   {
7     "dni": "2345678A",
8     "nomApels": "Nerea Prados Mata"
9   },
10  {
11    "dni": "3456789A",
12    "nomApels": "Miguel Rodriguez Martinez"
13  },
14  {
15    "dni": "4567890A",
16    "nomApels": "María Lopez Fernandez"
```

POST http://localhost:9099/lo GET http://localhost:9099/api/ PUT http://localhost:9099/api/ + ...

HTTP **http://localhost:9099/api/cientificos/3456789A** Save

PUT http://localhost:9099/api/cientificos/3456789A Send

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

Type Bearer Token Token eyJhbGciOiJIUzUxMiJ9.eyJpYXQiOiJlE3MDA...

The authorization header will be automatically generated when you send the request.
[Learn more about authorization](#)

Body Cookies Headers (18) Test Results Status: 200 OK Time: 42 ms Size: 708 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "dni": "3456789A",
3   "nomApels": "TEST PUT"
4 }
```

Capturas ejercicio 3:

POST http://localhost:9099/lo... GET http://localhost:9099/api/ GET http://localhost:9099/api/ GET http://localhost:9099/api/ + ...

HTTP http://localhost:9099/api/cajeros Save

GET http://localhost:9099/api/cajeros Send

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

Type Bearer Token Token eyJhbGciOiJIUzUxMiJ9.eyJpYXQiOiJlE3MDA...

The authorization header will be automatically generated when you send the request.
[Learn more about authorization](#)

Body Cookies Headers (18) Test Results Status: 200 OK Time: 202 ms Size: 1015 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 1,
3   "nomApels": "Sergi Rodriguez Utge"
4 },
5 {
6   "id": 2,
7   "nomApels": "Nerea Prados Mata"
8 },
9 {
10  "id": 3,
11  "nomApels": "Miguel Rodriguez Martinez"
12 },
13 {
14  "id": 4,
15  "nomApels": "Maria Lopez Fernandez"
16 }
```

POST http://localhost:9099/lo... GET http://localhost:9099/api/ GET http://localhost:9099/api/ GET http://localhost:9099/api/ + ...

HTTP http://localhost:9099/api/cajeros Save

GET http://localhost:9099/api/cajeros Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Bulk Edit
Key	Value	

Body Cookies Headers (14) Test Results Status: 403 Forbidden Time: 13 ms Size: 568 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "timestamp": "2023-11-17T05:43:28.084+00:00",
3   "status": 403,
4   "error": "Forbidden",
5   "message": "Access Denied",
6   "path": "/api/cajeros"
7 }
```

Capturas ejercicio 4:

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

- Request:**
 - Method: GET
 - URL: `http://localhost:9099/api/investigadores`
 - Params: `http://localhost:9099/api/investigadores/2345678A`
 - Authorization: Bearer Token `eyJhbGciOiJIUzUxMiJ9.eyJpYXQiOiJlE3MDA...`
- Response:**
 - Status: 200 OK
 - Time: 427 ms
 - Size: 1.08 KB
- Body (JSON):**

```
1 {
2   "dni": "4234567A",
3   "nomApels": "Sergi Rodríguez Utge",
4   "facultad": {
5     "codigo": 1,
6     "nombre": "Facultad de Ciencias"
7   }
8 },
9 {
10  "dni": "2345678A",
11  "nomApels": "Nerea Prados Mata",
12  "facultad": {
13    "codigo": 2,
14    "nombre": "Facultad de Ingeniería"
15  }
16 }
```