**OAuth2 Authentication Server**

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**Description**

We developed an authentication server following the Oauth2 flow, with the goal of providing JWT tokens. The application is built on express.js and uses SQLite as a database for storing user credentials and client applications’ information.

**Deployment**

1. Create a file .env resembling the picture below where PORT is the port in which the server is ran (default is 3000) and JWT\_SECRET is a string used to sign the JWT tokens.

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1. Use *npm install* to install the necessary dependencies
2. Use *node src/index.js* to run the server

Alternatively, the server is deployed and ready to be interacted with on the following link:  
https://auth-server-ss2425.onrender.com

**Endpoints**

**User Registration**

**POST** https://auth-server-ss2425.onrender.com/api/users/register

**Body:**

{

"username": "string",

"password": "string"

}

**Client Registration**

**POST** https://auth-server-ss2425.onrender.com/api/clients/register

**Body:**

{

"clientID": "string",

"clientSecret": "string",

"name": "string",

"redirectUri": "string"

}

**Authorization Process**

**GET** https://auth-server-ss2425.onrender.com/authorize

**Query Parameters:**

* client\_id: The client ID
* redirect\_uri: The redirect URI
* state: (Optional) string

Will prompt the user to fill a form with their username and password, submiting it performs the next request

**POST** https://auth-server-ss2425.onrender.com/authorize/login

**Body:**

{

"username": "username",

"password": "password",

"client\_id": "The client ID",

"redirect\_uri": "The redirect URI",

"state": "same as last state"

}

Will redirect to the client app's redirect URI with the authentication code as a query parameter

**Token Generation**

**POST** https://auth-server-ss2425.onrender.com/token

**Body:**

{

"client\_id": "The client ID",

"client\_secret": "The client secret",

"code": "the authorization code"

}

**Proof for our server**

**A screenshot of a computer

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**Proof for other servers**

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