

# Documentation for FLASK backend Souldis

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#### How to run

First head to the github page and clone into the project.

https://github.com/ArnorHeimir/Lokaverkefni-Souldis-API

To run our backend after cloning the following things must be setup first:

- Docker desktop
- Env file (found in resources)

First you need to head to the Docker Desktop official <u>website</u> and download docker desktop Tutorial links for:

- Windows
- Linux
- Mac
- •

After the Docker desktop has been set up we can move on to the Env file.

The Env is a file that holds all the data needed to connect to our database and our secret key that is used for hashing.

#### **Env File setup**

- Step 1 is create a new file within the "src" directory called ".env"
- Step 2 copy the data found <a href="here">here</a> and put it into the .env file you just created
- Done!

If you're not going to be using our database the information can be changed to match your own database.

Now the setup should be complete and the backend can be started using the command "docker compose up" while inside the directory.

#### Disclaimer!

If the code is changed in any way you must run "docker compose up -d --build" this command rebuilds the image and implements the changes that have been made.

## **General information**

**JWT tokens:** JWT tokens are required on all endpoints except login and register. When a user logs in a token is created and sent to the frontend so it can send it with the other requests **Password hashing:** the backend hashes all user passwords so there is not a threat to the users password if there is a data leak.

**Database:** the database is being hosted temporarily on Elephantsql but can be set up with the database file that comes with the project everywhere that supports postgreSQL. If the database is changed the information in the Env file must be changed to match the new database.

**Secret key:** the secret key that is found in the env file is the information that is used to create the token so it is unique to our project. This information can be changed to any string.

**Authmiddleware:** this file is to ensure that endpoints that require tokens are not accessible. **Database Middleware:** this file is to create a connection to the database that is then used in all of the endpoints.

# **Available endpoints**

Endpoints are sorted into 5 different files under the "routes" directory. In this section we will dive into what endpoints are available as well as how to access them. Examples will be shown of POST and PATCH requests but not the GET requests as they are more straightforward and mostly do the same thing.

## **Assignments.py**

**URL:** <a href="http://localhost:5000/assignments">http://localhost:5000/assignments</a>

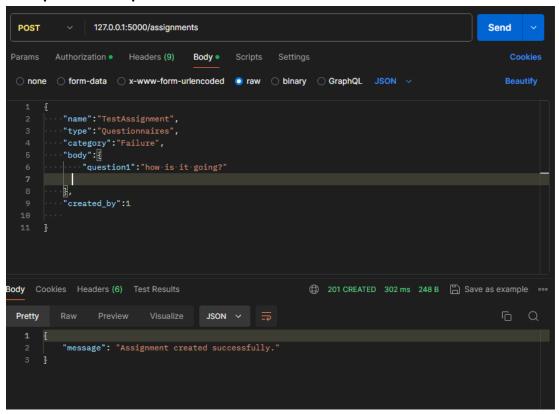
Methods available: GET,POST

Token required in Authorization Header: Yes

GET request: returns all assignments within the database

**POST request:** Expects the fields in body: name,type,category,created\_by,body. Tries creating an assignment and returns a message if it succeeds or fails.

**Example POST request:** 



URL: http://localhost:5000/assignments/user/<user\_id>

Methods available: GET

Token required in Authorization Header: Yes

GET request: returns all assignments that are created by the user\_id found in the URL

URL: http://localhost:5000/assignments/client/<client\_id>

Methods available: GET

Token required in Authorization Header: Yes

GET request: returns all assignments that have been assigned to the client with the client id

found in the URL.

URL: <a href="http://localhost:5000/assignments/<id>
<a href="http://localhost:5000/assignments/</a>
<a href="http://localhost

**GET request**: returns the assignment with the id found in the URL.

**DELETE request:** Tries to remove the assignment with the id found in the URL. returns a

message if it succeeds or fails.

**PATCH request:** checks for the fields in body: name,type,category,created\_by,body. Tries to update the assignment with the id found in the URL. returns a message if it succeeds or fails.

URL: <a href="http://localhost:5000/assignments/type/<type></a>

Methods available: GET

**Token required in Authorization Header: Yes** 

**GET request**: returns all assignments that have the type found in the URL.

## **Appointments.py**

URL: http://localhost:5000/appointments

Methods available: GET,POST

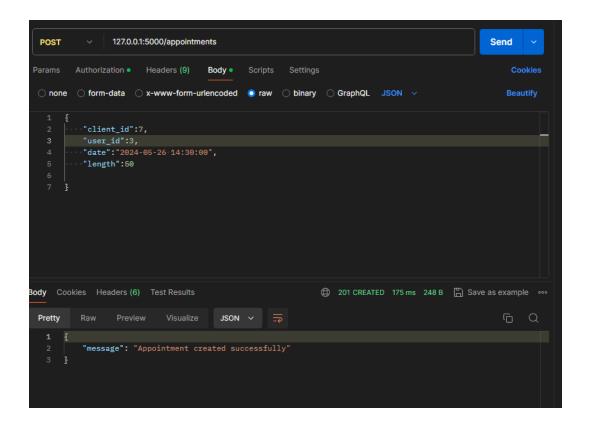
Token required in Authorization Header: Yes

**GET request**: returns all appointments within the database

**POST request:** Expects the fields in body: client\_id,user\_id,date,length. Tries creating an

appointments and returns a message if it succeeds or fails

**Example POST request:** 



**URL:** <a href="http://localhost:5000/appointments/user/<user\_id">http://localhost:5000/appointments/user/<user\_id</a>

Methods available: GET

Token required in Authorization Header: Yes

**GET request**: returns all appointments within the database that has the user\_id as the user\_id

found in the URL.

**URL:** <a href="http://localhost:5000/appointments/client/<client\_id>"> ttp://localhost:5000/appointments/client/<client\_id></a>

Methods available: GET

Token required in Authorization Header: Yes

**GET request**: returns all appointments within the database that has the client\_id as the client\_id found in the URL.

**URL:** <a href="http://localhost:5000/appointments/date/<date>/<user id></a>

Methods available: GET

Token required in Authorization Header: Yes

**GET request**: returns all appointments within the database that has the user\_id as the user\_id found in the URL and is on the same date as the date found in the URL.

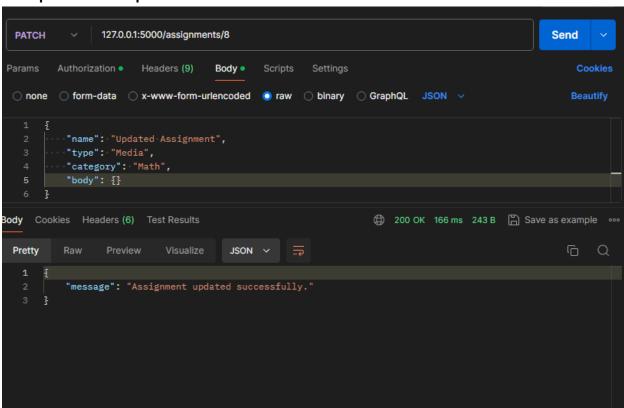
URL: <a href="http://localhost:5000/appointments/<id>
<a href="http://localhost:5000/appointments/<ia>
<a href="http://localhost:5000/appointments/</a>
<a href="http://localhost:5000/a

**GET request**: returns all appointments within the database that has the id as the id found in the URL.

**DELETE request:** Tries to delete the appointment with the id found in the URL. returns a message if it succeeds or fails.

**PATCH request:** checks for fields in the body: client\_id,user\_id,date,length. Tries to update the appointment with the id found in the URL in the database with the fields found in the body.

#### **Example PATCH request:**



## clientAssignments.py

**URL:** http://localhost:5000/client-assignments

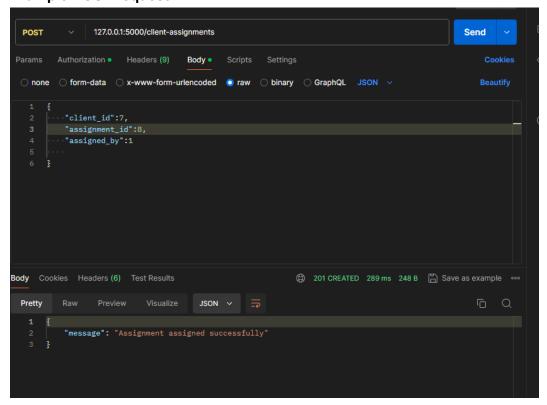
Methods available: POST

Token required in Authorization Header: Yes

POST request: Expects the fields in body: client\_id, assignment\_id, assigned\_by. Tries

assigning an assignment to a client and returns a message if it succeeds or fails.

**Example POST request:** 



URL: http://localhost:5000/client-assignments/user/<user\_id>

Methods available: GET

Token required in Authorization Header: Yes

**GET request:** returns all client-assignments that have been assigned by the user\_id found in the URL.

**URL:** http://localhost:5000/client-assignments/client/<client\_id>

Methods available: GET

Token required in Authorization Header: Yes

**GET request:** returns all client-assignments that have been assigned to the client\_id found in the URL.

URL: http://localhost:5000/client-assignments/<id>

Methods available: GET,PATCH

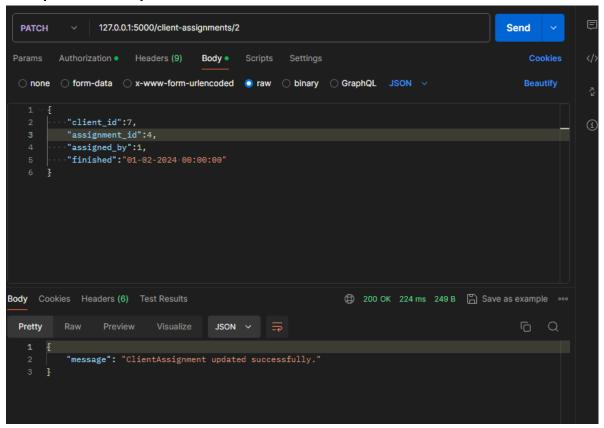
Token required in Authorization Header: Yes

**GET request:** returns the client-assignment that has the id found in the URL.

**PATCH request:** checks for the fields in body:

**client\_id,assignment\_id,assigned\_by,finished,body.** Tries to update the client-assignment that has the id found in the URL with the fields found in the body. Returns a message if it succeeds or fails.

#### **Example PATCH request:**



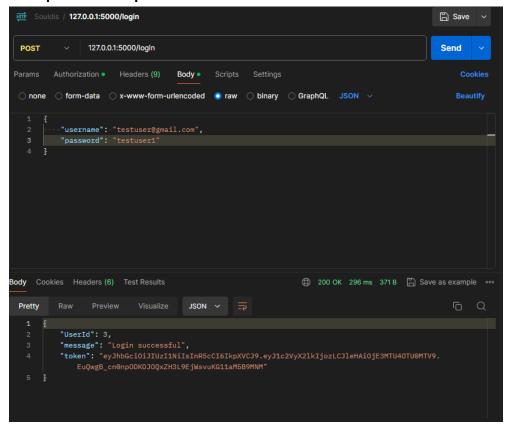
## **User.py**

URL: http://localhost:5000/login
Methods available: POST

Token required in Authorization Header: No

**POST request:** Expects the fields in body: **username,password.** Checks the database if this matches to a user that exists. Returns the user\_id and a valid JWT token to access other endpoints.

**Extra info:** login can be both performed with the email of the user as well as their username. **Example POST request:** 



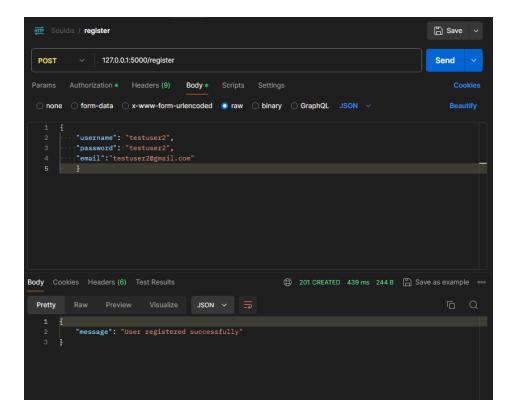
**URL:** http://localhost:5000/register

Methods available: POST

Token required in Authorization Header: No

**POST request:** Expects the fields in body: **username**, **password**, **email**. Tries to create the user in the database. Returns a message if it succeeds or fails.

**Example POST request:** 



# Clients.py

URL: <a href="http://localhost:5000/clients">http://localhost:5000/clients</a>
Methods available: GET,POST

Token required in Authorization Header: Yes GET request: returns all clients in the database.

POST request: Expects the fields in body: full\_name, birth\_day, image. Tries to create the

client in the database. Returns a message if it succeeds or fails.

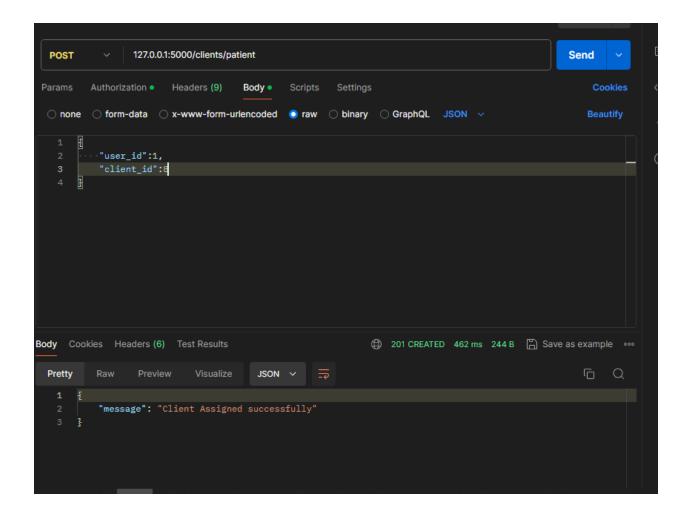
URL: http://localhost:5000/clients/patient

Methods available: POST

Token required in Authorization Header: Yes

**POST request:** Expects the fields in body: **client\_id**, **user\_id**. Tries to create a connection in the UserClients table making the client a patient for the user. Returns a message if it succeeds or fails.

**Example POST request:** 



URL: http://localhost:5000/clients/patient/<user id>

Methods available: GET

Token required in Authorization Header: Yes

**GET request:** returns all the clients that are patients of the user\_id found in the URL.

URL: http://localhost:5000/clients/client\_id

Methods available: GET

Token required in Authorization Header: Yes

**GET request:** returns the client with the client id that is found in the URL.

# **Resources**

## Contents of the ENV file.

```
DB_NAME=hcbljknd

DB_USER=hcbljknd

DB_PASSWORD=c1DFftTx8JAtRX95wYQJAcMQgZ4jYij8

DB_HOST=flora.db.elephantsql.com

DB_PORT=5432

SECRET_KEY=souldis_api_ahs
```