Install and run the service:

apt-get install python3-venv

python3 -m venv flask //Create a venv called flask.

source flask/bin/activate //activate the venv

pip install -r requirements.txt

run "FLASK\_APP=admin.py"

run "flask run"

Then start a new Terminal to test it.

Install httppie first “sudo apt install httpie”

API:

|  |  |  |
| --- | --- | --- |
| Get | /api/users/<id> | Return a user. |
| Post | /api/users | Register a new user |
| Put | /api/users/<id> | Update user’s info |
| --auth post | /api/token | Request a token |
| Delete | /api/token | Revoke a token |

The token will be expired in 3600 seconds (1 hour).

Test it:

//insert a test record into User table to test.

http POST http://localhost:5000/api/users username=wei password=1234 email=wei@example.com

A screenshot of a cell phone

Description automatically generated

http GET <http://localhost:5000/api/users/2>

//unauthorized. You cannot get a user’s info whenyou do not have a token.

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Description automatically generated

http --auth wei:1234 POST <http://localhost:5000/api/tokens>

// use a username and password to request a user token.

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http GET http://localhost:5000/api/users/2 \Authorization:"Bearer LidKTEEV1gadNTcb+S0cZsf5az3gXlOH"

#With a token, you can access a user’s info. \*\*Need to replace the user.id and the token

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http PUT http://localhost:5000/api/users/2 username=wei2 email=wei2@example.com \Authorization:"Bearer LidKTEEV1gadNTcb+S0cZsf5az3gXlOH"

// update a user profile with a token.

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http DELETE http://localhost:5000/api/tokens \Authorization:"Bearer 69V97OtJLsmP24sePyH6ykH3qavwCAIC"

//You should delete the token When user log out.

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