

Obligatory assignment 2: wRESTling bots

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Files and running the program:

api.py
client.py
bots.py
users.json
rooms.json

The assignment is programmed in Python 3.9.2

Libraries needed for the program to work is flask, that can be installed through the terminal with pip:

```
pip install Flask
```

The program is run in the terminal. To get started you first must run api.py.

The default address for the API will be run on localhost: <http://127.0.0.1:5000/>

Afterwards you will have to run client.py which takes 1 obligatory and 1 optional argument:

```
py client.py <API Address> <optional! Bot_name>
```

If you want to start as a user and type messages for yourself, you leave out the Bot name field.

Example run:

NOTE: Each command is run on a separate terminal

```
# Starting the API server on http://127.0.0.1:5000/  
py api.py
```

```
# Starting one client instance as a user not bot  
py client.py http://127.0.0.1:5000/
```

```
# Starting instances of the 4 bots  
py client.py http://127.0.0.1:5000/ Bot_Tobias  
py client.py http://127.0.0.1:5000/ Bot_William  
py client.py http://127.0.0.1:5000/ Bot_Adrian  
py client.py http://127.0.0.1:5000/ Bot_Eirik
```

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Bots:

The bots we have implemented are lesser bots, they can register as user, login, create rooms, join rooms, and send messages. They do not respond to any messages.

To be able to run as a bot you must input one of their names as an argument in the terminal, as seen above.

We have the following names for the bots (Case sensitive):

- Bot_Tobias
- Bot_William
- Bot_Adrian
- Bot_Eirik

Commands:

As a user you can access the API through commands that you type as input. These commands always start with “/” to get a list of all the commands you can type “/help” as an input.

List of all commands:

- /help - Provides info of all commands
- /exit - Exits program
- /info - Gives info about chatting service
- /leave - Leaves current room
- /register <username> - Registers a user
- /login <user_id> - Login as a user
- /join <room_id> - Join a specific room with room_id
- /create <room_name> - Create a room with the given name
- /delete_user <user_id> - Deletes user with given user_id, has to be user
- /delete_room <room_id> - Deletes room with giver room_id, has to be room creator
- /get_rooms - Get all rooms
- /get_room_users <room_id> - Get all users in a specific room (That you are in)
- /get_all_room_messages <room_id> - Get all messages in a room
- /get_all_user_messages <room_id> - Get all messages in a room that you have posted