**Group members:**

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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 have to 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

**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 have to 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 liast 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