**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:**# 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

**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