

Final Project - Chat base on Network

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About the Project

This is task 7 in our course. The project have 3 steps, in this README we related to step 1 and step 2 .

Step 1 - we needed to build a chat base on network like Messenger.

Step 2 - we need to add a feature of send files over UDP with congestion control between server and client

Code Description

The code are separate to Client and Server

Server folder:

in the Server folder there is :

- Filesdir - this folder are keeping the file are available to download for the client.
- Logs - this folder are saving the logs between the server and the client
- safeqthreads - this folder have 3 files :

```
- `Descriptors.py` - Implement stop_running attribute for our threads.  
- `Errors.py` - Implement define errors.  
- `SafeQThreads.py` - set the attribute of the threads.
```

- Logs.py - here i create module to manage application logs and printing.
- Utils.py - Implement functions are handles with all the communication between the Server and the Client.
- Serverapp -

Client folder:

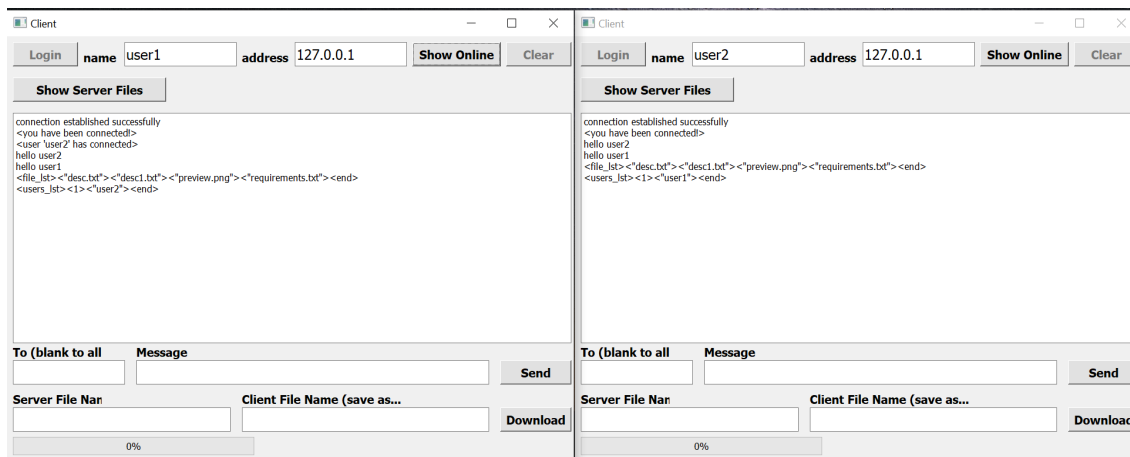
in the Client folder there is :

- safeqthreads - this folder have 3 files :

```
- `Descriptors.py` - Implement stop_running attribute for our threads.  
- `Errors.py` - Implement define errors.  
- `SafeQThreads.py` - set the attribute of the threads.
```

- `Logs.py` - here i create module to manage application loges and printing.
- `Utils.py` - Implement functions are handles with all the communication between the Server and the Client.
- `clientapp.py` -

GUI Example



How to Run

Firstly, to run this project, download the files from the github. Then check if the requirements are install . After that run the `serverapp.py` and open the cmd in the Client folder of the project Write " `python clientapp.py` " then press Enter button . Write your Nickname and in the address bar write `127.0.0.1` then press on Login button.

Dependencies

This project is using Python version `3.9` . i am using `tPy - 2.0.0` for the UI implementasion And `PySide2 - 5.15.2` for the framework