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CMP2204 Term Project
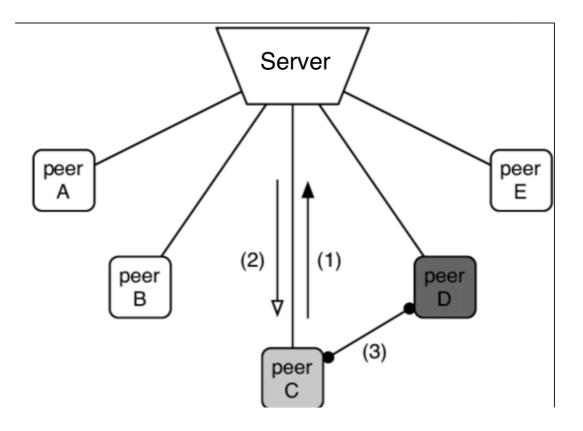
Peer to Peer Chat

Server.py

The server stands in the middle, creating an "Online user" list by collecting "username" and "IP" information for clients. There is only **one mission** of server ; **create online user list and deliver it!**

This process is carried out via UDP with 5000 port.

Customers also transmit their "username" and "IP" information to the **server** via UDP 5000 port.

Heres activity list of connected users to the server.

1 - 'Im here and add me to online user list' request

2 - 'I added you into 'user list' response

3- P2P communication between peers by TCP (client.py)

Client.py

The client.py file displays the list of 'online users' that it receives from the server and enables communication with other people in this list.

```
x:Peer-to-Peer-Chat mertgonul$ python client.py
Enter your username: John

------[ONLINE USERS]------
| Mert : 127.0.0.1
| Semih : 127.0.0.1
| John : 127.0.0.1
+------------------------

------[COMMANDS]------
- Enter [1] to connect to peer
- Enter [2] to wait P2P connection
- Enter [3] to logout
- Enter [4] to refresh online user list
- /back command is closing the active chat session and enabling the menu
**** Your messages automatically saved into [messages.txt] file

Enter choice:
```

The protocol between server and client is UDP.

The protocol between "client" and "client" is TCP.

The server can never access the message between two people because the messages are exchanged between two people.

Example conversation between two peer.