CSC 138 Project: Python Chat Room

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Methodology

server.py:

- Binds server to host and user using the provided port and starts listening on the provided port.
- Uses recv to get messages from client.

JOIN:

- Error Checking: If the username is already being used, the user cannot be admitted. This is done by comparing the username with existing usernames in the users array.
- If there are more than 10 users active, it sends the user a message that the chat is full.

```
[danielaperez3@ecs-pa-coding3 project]$ python3 server.py 8001
Server is listening on 8001
Connected with (('130.86.188.35', 44950))
dani joined the chat!
```

```
[[danielaperez3@ecs-pa-coding3 project]$ python3 client.py ecs-coding3.csus.edu 8001
Enter JOIN followed by your username: JOIN username
JOIN dani
[SERVER: dani joined the chat!
```

```
[JOIN jocelyn
Sorry the chat is full, please try later
```

BCST:

- Creates index to match broadcaster to username array.
- The message is displayed to all users, accompanied by the username of the broadcaster.

[BCST hello, everyone!
dani: BCST hello, everyone!

SERVER: drew joined the chat! dani: BCST hello, everyone!

MESG:

- Users can privately message other users.
- Error checking: If the username isn't in the array, an error message is sent to the user.

dani: BCST hello, everyone! [MESG drew hi, drew

SERVER: drew joined the chat! dani: BCST hello, everyone! dani: MESG drew hi, drew

LIST:

• Lists all active users by displaying the array containing usernames.

LIST Online: dani, drew

OUIT:

- Removes the user from the array.
- Closes their connection and program is exited.

[QUIT [danielaperez3@ecs-pa-coding3 project]\$

dani: MESG drew hi, drew dani has left the chat

client.py:

- Connects to the server using given host and port.
- Uses recv to get messages from chat server.
- Uses threads for incoming and outgoing messages.