



# Semester Project

Karina Quick



# Agenda

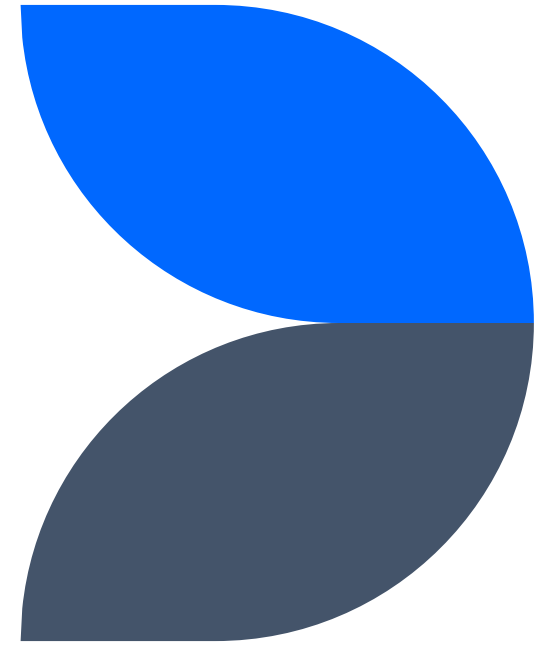
Python Chatroom

- How It Works

Hardest Parts

What Did I Learn

# Python Chatroom



# How It Works

- Everyone who will be using the program needs to be on the same network.
- Anyone who wants to join the chat needs to have the client code on their device.
- The host needs to have the server code running on their device.
- The users who want to join the chat needs to put in the same IP address and port number as the server.
- This can be run on linux or windows



```
Command Prompt - python × + v
Microsoft Windows [Version 10.0.22621.2428]
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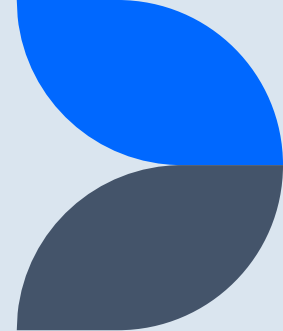
C:\Users\nosey>cd documents/chat-room-server-master

C:\Users\nosey\Documents\Chat-Room-server-master>python chat_server.py 10.127.23.231 1998
|
```

```
Command Prompt - python × Command Prompt - python × + v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nosey>cd documents/chat-room-server-master

C:\Users\nosey\Documents\Chat-Room-server-master>python client.py 10.127.23.231 1998
Welcome to this chatroom!
|
```



```
Command Prompt - python X Command Prompt - python X + v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nosey>cd documents/chat-room-server-master

C:\Users\nosey\Documents\Chat-Room-server-master>python chat_server.py 10.127.23.231 1998
10.127.23.231 connected
|
```

```
Command Prompt - python X Command Prompt - python X + v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nosey>cd documents/chat-room-server-master

C:\Users\nosey\Documents\Chat-Room-server-master>python client.py 10.127.23.231 1998
Welcome to this chatroom!
Hello!
<You> Hello!
|
```

```
Command Prompt - python X + v

C:\Users\nosey\Documents\Chat-Room-server-master>python chat_server.p
y 10.127.23.231 1998
^C
C:\Users\nosey\Documents\Chat-Room-server-master>python chat_server.p
y 10.127.23.231 1998
10.127.23.231 connected
10.127.23.231 connected
10.127.23.231 connected
<10.127.23.231> hello
10.127.23.231 connected
<10.127.23.231> fjsa
<10.127.23.231> hello
^C
C:\Users\nosey\Documents\Chat-Room-server-master>python chat_server.p
y 10.127.23.231 1998
10.127.23.231 connected
10.127.23.231 connected
10.127.23.231 connected
Error in client thread: [WinError 10054] An existing connection was f
orcibly closed by the remote host
10.127.6.138 connected
Error in client thread: [WinError 10054] An existing connection was f
orcibly closed by the remote host
|

<You> fj
<10.127.6.138> has joined the chat
<10.127.6.138> hi
<10.127.6.138> can you see thisi
omg
<You> omg
yes
<You> yes
it works!!!
<You> it works!!!
<10.127.6.138> lol
<10.127.6.138> Ugh
<10.127.6.138> lol
<10.127.23.231> ayyyy
<10.127.6.138> I see that it works!!!
<10.127.23.231> this is the coolest
<10.127.6.138> hey
^C
C:\Users\nosey\Documents\Chat-Room-server-master>

<You> this is the coolest
<10.127.6.138> hey
sup lol
<You> sup lol
<10.127.6.138> It is cool
<10.127.6.138> But, lol, I can only see your response after I reply.
<10.127.6.138> Kinds
<10.127.6.138> Kinda
Imma take a screenshot and then use it in my presentation lol
<You> Imma take a screenshot and then use it in my presentation lol
<10.127.6.138> <You> Kindahmm
<10.127.6.138> hmm
<10.127.6.138> Almost the coolest. Lol
<10.127.6.138> <You> Almost the coolest. Lol
<10.127.6.138> Still testing.
<10.127.6.138> This is kind of funny
loll
<You> loll
```

# Hardest Parts

One of the hardest parts that I came across was connecting two people in the server at the same time. I was able to get one user connected and it chatted fine, but then when I got a second user and the first user tried to type again, it would kick the first user out of the server. Then when I tried to connect the first user again to the server, the second user doesn't see the first reconnect or chat which meant the first user started a whole separate chatroom.



# What Did I Learn

Throughout the process, I learned more about IP addresses and ports. I also learned a lot about exceptions for different things that could go wrong in a program and how the program can handle it. The most important thing that I've learned was how fun it was when the program worked and seeing another person chat in the room while across campus.



**Thank you**