COSC 350 Project

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TCP Chat in Python

The original scope of the Project was to design a TCP chat in python that could have users swap between several chat rooms as they pleased. Users could also create a profile that would be saved/edited locally, and could be requested by other users connected at the same time. I realize now that that my original idea is quite overly ambitious. What I was able to complete was the basic chat room functionality.

This Chat room will create a server accessing port 55555 and host clients on the same port. This chat room follows a basic client to client communication model, as both clients connected to the same server can communicate to each other. I had to learn about importing sockets, starting threads, and declaring ports to access in order to complete this assignment.

I experienced several challenges; one was figuring out format errors in python considering it was my first-time using python. Another was trying figuring out why my server kept crashing, or why every time I tried actually chatting the client would force close. Lastly, I had to remove all my code that implemented the local profiles. Due to time constraints I did not even attempt to implement the server swap ability.

After overcoming these challenges I reflect on all the things I learned and I am proud I have something working. Hopefully I can expand on this project in the future!

References

*Python Programming Tutorials*, pythonprogramming.net/server-chatroom-sockets-tutorial-python-3/.

“Simple Chat Room Using Python.” *GeeksforGeeks*, 19 Nov. 2020, www.geeksforgeeks.org/simple-chat-room-using-python/.

tejaswan 7 Aug 2020 Reply, et al. “TCP Chat in Python.” *NeuralNine*, 24 Sept. 2019, www.neuralnine.com/tcp-chat-in-python/.