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CNT4713

Net Centric Programming 1 Project 1 (Chat and Client Server)

I. Introduction: Describe the problem that you are trying to solve and additional study you needed to do. For example, the requirements may be that you needed to read another book or a web site. Provide an insight on the final product of the lab in this section as well.

I'm trying to create a Chat Server with sockets that follows the IRC protocol.

II. Problem Statement: Describe what is the problem you needed to solve.

I needed to create a chat and client server that would support the IRC protocol.

III. Methodology: Described how you solved the problem. This must include important information such as socket information and so forth. This may also include the configuration and anything else you created.

In order to solve this problem, I had to break it down into a few steps:

1. First I decided what GUI to use and I decided on ttkinter.
2. Second I decided on the infrastructure of my application and how to separate certain parts of the project into different classes such as the User.py, Channel.py, ChatServer.py and more.
3. Third I decided to map the channels, the users, and the sockets in the ChatServer.py class.
4. I then started working on the required commands starting with the simplest ones such as /rules and /version.
5. Finally, I polished up any errors in my code and worked on the GUI a little bit to make it more appealing to the user.

IV. Results: Provide some sample output and provide discussion if needed.

In the end I was able to support most of the commands that were required for the project.

V. Analysis: Describe your learning experience, problems you encountered, and anything else that may be useful.

Encountered problems with allowing the chat application to support a user to join multiple channels at a given time with tab functionality.