A comprehensive explanation of the chatroom built by Group 6.

To use the chat room the user must have the following files on their computer in their shared folder

You can get these off of the github

To run this project you must use the unbuntu virtual box and follow these commands

gcc -o server server.c communication.c -lpthread

gcc -o client client.c -lpthread

in that order.

Now in the terminal start the server using ./server

Now connect as many clients as you wish in new terminals for each client using ./client

You can now follow this video demonstration (start at 43 seconds)

<https://www.youtube.com/watch?v=ANJ82eJuV9M>

The following instructions will parallel the video

As shown in the video if you are a first-time user you first must register this can be done by entering the command “register” you then will be prompted to enter a username and password you then will be asked to sign in (if you already have a login you will use the command “signin” instead of register and will then enter your username and password). It is important to note that 2 users may not share the same username. This can be done by trying to register 2 clients with the same username.

Upon entering the chat room you will see a manual that gives the user instructions. If there have been previous messages you will be able to see them. If not that means you are the first user! To send a message simply type in the client chat and press enter

A great feature our chat room provides is the ability to view chats that have been sent before you join the chat room. In the video example, the user raul is the first user and the second user ben upon entering the chat room is able to see rauls chat even joining after the message had been sent. If you would like to try this on your own log in with 2 or 3 different clients and sending messages between 2 of them. Then simply sign in the third and you will be able to see the messages.

Another great feature of the chat room is private message by using the command /dm a user is able to send a message to another user in the chat room that only that specific user can see. In the video example raul sends the message “can you believe he likes pizza with pineapples on top?” to which you can see the user ben sees the message but not peter.

Another great feature that the chat room offers is the command /list. This command shows the active users in the chat. To use this type /list in the chat (this works best if more than one client is connected)

The final feature is the exit feature. A user can type the word exit in the chat which will have them leave the chat to which the others users are given the message (username) has left the chat in the video example all the users leave the chat.