NETWORK PROGRAMMING ASSIGNMENT 3 P1
Design Document

Design a multicast chat application

Date Submitted: Vidit Jain (2016A7PS0064P)
November 25, 2019   Jitvan Shukla (2016A7PS0083P)

To run multicast_chat_client.c:
./a.out 239.0.0.1 6008

Give Group IP and port separated by space

Features:
1. Anyone who joins the group gets all the messages posted in the group
2. For sending, one can either ask a specific course's test date or tell the date for a course.
3. For each client there are two processes:- 1 for sending, 1 for receiving
4. There's a shared memory between these processes for storing data about which courses test dates have been already asked on the group or which dates have already been answered.
5. If someone has already answered the question client wants to ask, client is notified about it
6. If no one has asked the question client wants to answer, client is notified about it
7. Client can ask a question someone has already asked
8. Client can answer a question already answered. (sometimes there are different answers to a question depending on opinion)

Constraints:
Messages can be received in between menu selection or y/n selection