

General thoughts:

Messages are stored in files. There are multiple trackers (in section below) that tracks which file we are in, how many messages we can continue putting in this file, etc. Files are ordered from 0 to 20 where messages 1-10 will go in file 0, messages 11-20 will go in file 1, messages 21-30 will go in file 2 and so on. I will use regular expressions to find the message with the given ID within the file. Besides files for storing messages, I will also have a back_up.txt to store global variable data after disconnect()

Global variables as trackers for:

Index of current file that still has space (ie file count)

Message number in current file

Overall message count

Max count of messages per file (usually 10 messages/file max)

Max message count

Current poster name

Maybe: number of files

Remove:

Find the file that stores the message to be removed given message id

Read line by line and write each line to a separate file

When the line hits the id that we want to remove, skip the next couple of lines

After reading is completed, delete original file and rename the temp file to the original.

A file available.txt will keep track of all the files that still have spaces. Each time something is removed from a file, the file name is written to the available.txt (meaning duplicates are allowed). Each time someone posts, the post will go to the first available file from available.txt instead of a new file.