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/* CSci4061 S2016 Assignment 2
 * section: 7
 * section: 2
 * section: 2
 * date: 03/10/2016
 * name: Sujita Shah, Charon chen, Cheng Chen
 * id: shahx220, chen4393, chen4162 */
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1. Our program is about a chat application based on Linux platform

2. Compilation:

move to the directory of ./chat folder

type make in the terminal

3. Using from the shell

type ./server to start

test the following requirements

4. Instruction:

In the server part, you can do the following things:

\add <username>: create a new user name

\list: display a list of all added users

\kick <username>: remove one user by its name

\exit: terminate all users' command windows and the server program

<any-other-text>: broadcast to all users

In the user command window, you can do the following things:

\p2p <username> <text>: send message to another user by its name, if there is no such a user, it will display the error message

\exit: the user will be terminated and its info

<any-other-text>: broadcast to all users and the a "Broadcasting" will be displayed on server

5. Assumption:

There will be no more than 10 users and message should be less than 1024 bytes

6. Error handling:

Check the return value of the system calls in our program, if they are -1, print error message and exit by perror().