

Client

variables:

string *username*
string[] *users*
IP *server_address*

functions:

connect(*server_address*)
send_message(*user, message*)
exit()

Server

variables:

string[] *users*
hashmap *user_address*<string,IP>

functions:

send_connection_ack(*user_address*)
route_message(*origin_user, target_user, message*)
send_user_list(*target_user, user_list*)
send_recieved_receipt(*target_user, recipient_user*)
send_new_user_report(*new_user, user_list*)
remove_user(*user_address*)