Assignment -1

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Running Server

goto "Assignment1" directory from the root folder
compile Server java file :
javac TheMajesticServer.java
start Server :
java TheMajesticServer <max number of users>
OR Bash Script:
./server <max number of users>

Error Handling:
- Maximum number of users on Server reached.
- Maximum number of users allowed for the server not given at the time of exection.
- User tried to connect to create/join a chatroom when part of another chatroom.
- User not in any chatroom but tries to print Members of the chatroom/leave chatroom/add another user/reply.
- Command unrecognised.
- User tried to join a chatroom that doesn't exist.
- User tried to add another user to a chatroom when the other user is already a part of another chatroom/doesn't exist/part of same chatroom.
- User tries to send a file that doesn't exist.

Running Client

goto "Assignment1" directory from the root folder
compile Client java file:
javac People.java
start Client :
java People <username>
OR Bash Script:
./client <username>

Error Handling: Displays error when username is not provided.

Whenever a user is logged in, server shows: User <username> is logged in

Chatroom

Input: create chatroom <chatroom_name>
Output: Chatroom <chatroom_name> created
        You are in chatroom <chatroom_name>

(Creating a chat room automatically joins the client to that chat room.)

Input: list users
Output: <users_of_the_chatgroup_you_are_currently_in>
Error Handling: You are not part of any chatroom (If the user is not present in any chatgroup right now)

Input: list chatrooms
Output: command to list all chat rooms
Error Handling: No chatrooms are available (If there are no chatrooms present)

Input: join chatRoom1
Error Handling: chatroom doesn't exist (If the specified chatroom doesnt exist),
                You are already of chatroom <chatroom>(user already part of a chatroom)

Input: add <username>
Output: Adds the user to the current chatroom

Input: leave
Output: <username> left the chatroom
(The chatroom gets deleted when all users leave it)

Input: LOGOUT
Output: Deletes the socket for that user

Input: reply "message"
Output: Send a message in the chatroom as Username: <message>

Input: reply <filename> <tcp/udp>
Output: Send file to all the users in the current chatroom

Error handling:
1. Unrecognised command – When the command is not among the above defined commands.
2. Cannot connect: Reached Server's maximum capacity when the number of clients exceed the limit mentioned by the server.