

Network 4_2 Instructions

1. Create a new NetBeans Java Project named **Network4_2**.
2. Navigate to the **Network4_2** folder on the Common (G:) drive (Computer Science folder). Copy the three files MyServer.java, MyClient.java, and Member.java and add them to the **src** folder inside your NetBeans project folder.
3. To see how the program works run the Server with at least two Clients.

Program Modifications

Modify the MyClient class so that if a client types the word “exit” inside the textField box and clicks the submit button it is removed from the list of members maintained by the Server. You do not need to make modifications to the MyServer. When the server receives an “EXIT” message from a client it responds by removing that client from the ArrayList of members and sends out the following message to all other clients:

- 1: “EXIT”
- 2: name of client that resigned
- 3: new size of member list
- 4: the updated list of names

Your task is two-fold.

1. Modify the **ActionPerformed** method in the MyClient class so that when the submit button is pressed it checks to see if the message in the textField is equal to “exit”. If it is equal to “exit” then the method sends an “EXIT” message to the server along with its username (two separate `println` statements). Finally `System.exit(1)` is called to close the client down.
2. Add an if/else statement to code that monitors Server messages. If an “EXIT” message is received from the Server then do the following:
 - Retrieve the second part of the message sent by the server which includes the name of the client who resigned. Once the name has been retrieved append a message to the textArea stating “[client name] has logged off.”
 - Retrieve the third part of the message which includes the new size of the member list.
 - Retrieve the fourth part of the message which includes that names of the remaining active members. As the names are being read append them to a string so that when finished **membersArea** can be set to that string.

Example: `membersArea.setText(str);`

Remember to attach a “\n” to the end of each name so they will appear on separate lines within membersArea.