

## UT/IT Report

### Menu for Instant Chatters:

```
manu@LAPTOP-DDHEU0GA:~/CAPG59/program/bin$ ./server
-----Welcome to Instant Chatters -----
Please choose your operation
1.Registration
2.Login using Credentials
3.Sign-Out
Enter your choice:
```

### Registration:

```
manu@LAPTOP-DDHEU0GA:~/CAPG59/program/bin$ ./server
-----Welcome to Instant Chatters -----
Please choose your operation
1.Registration
2.Login using Credentials
3.Sign-Out
Enter your choice: 1
Enter your full name: kommimanohar
Enter your email: kommimanoharnaidu@gmail.com
Enter your contact number: 45555689785
Enter your password: 111
Confirm your password: 111
User registration success,Your username is kommimanoharnaidu@
```

## Details Displayed after Suffixful Login & Server Program Running and Listening:

```
Enter your choice: 2
Enter your username: kommimanoharaidu@
Enter your password: 111

Welcome kommimanohar

-----
|Full Name:   kommimanohar
|Email:      kommimanoharaidu@gmail.com
|Username:   kommimanoharaidu@
|Contact no: 45555689785Socket successfully connected..
Socket successfully binded..
Listening
```

## Sending & Receiving of Messages:

### 1.Server Accepting Client 1 & Client 2:

```
Server accepted client1..
Server accepted client2..
hello
message to Client2
hi
message to client1
i am from capgemini
message to Client2
even me too from capgemini
message to client1
bye
message to Client2

Enter your choice: 3
Bye Bye :)
manu@LAPTOP-DDHEUOGA:~/CAPG59/program/bin$
```

**Client 1 is Setting up and running :**

```
manu@LAPTOP-DDHEU0GA:~$ cd CAPG59/program/bin
manu@LAPTOP-DDHEU0GA:~/CAPG59/program/bin$ ./client1
Server is up and running..
Client 1 : hello
Client 2 : hi
Client 1 : i am from capgemini
Client 2 : even me too from capgemini
Client 1 : bye
manu@LAPTOP-DDHEU0GA:~/CAPG59/program/bin$
```

**Exchanging Messages Between Client1 and Client2:**

```
manu@LAPTOP-DDHEU0GA:~$ cd CAPG59/program/bin
manu@LAPTOP-DDHEU0GA:~/CAPG59/program/bin$ ./client2
Client 1 : hello
Client 2 : hi
Client 1 : i am from capgemini
Client 2 : even me too from capgemini
manu@LAPTOP-DDHEU0GA:~/CAPG59/program/bin$
```

```

manu@LAPTOP-DDHEUOGA:~$ cd CAPG59/program/bin
manu@LAPTOP-DDHEUOGA:~/CAPG59/program/bin$ ./client1
Server is up and running..
Client 1 : hi
Client 2 : hello
Client 1 :

```

```

manu@LAPTOP-DDHEUOGA:~$ cd CAPG59/program/bin
manu@LAPTOP-DDHEUOGA:~/CAPG59/program/bin$ ./client2
Client 1 : hi
Client 2 : hello

```

## Exchange Messages & Active Users List:

```

jahnnavi@DESKTOP-00P87Q6: ~/chatr
jahnnavi@DESKTOP-00P87Q6:~$ cd chatr
jahnnavi@DESKTOP-00P87Q6:~/chatr$ vi server.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ indent server.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ vi client.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ rm client.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ ls
server.c server.c~
jahnnavi@DESKTOP-00P87Q6:~/chatr$ vi client.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ indent client.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ vi client.c
jahnnavi@DESKTOP-00P87Q6:~/chatr$ gcc -Wall -g3 -fsanitize=address -pthread client.c -o client
jahnnavi@DESKTOP-00P87Q6:~/chatr$ ./server
Start Server on: 0.0.0.0:8888
Client 127.0.0.1:52507 come in.
jahnnavi(127.0.0.1)(4) join the chatroom.
Client 127.0.0.1:52513 come in.
tony(127.0.0.1)(5) join the chatroom.
Send to sockfd 4: "tony(127.0.0.1) join the chatroom."
Client 127.0.0.1:52543 come in.
betty(127.0.0.1)(6) join the chatroom.
Send to sockfd 4: "betty(127.0.0.1) join the chatroom."
Send to sockfd 5: "betty(127.0.0.1) join the chatroom."
Send to sockfd 4: "betty@ Hi! my name is betty from 127.0.0.1"
Send to sockfd 5: "betty@ Hi! my name is betty from 127.0.0.1"
Send to sockfd 5: "jahnnaviB oh! hello nice to meet you from 127.0.0.1"
Send to sockfd 6: "jahnnaviB oh! hello nice to meet you from 127.0.0.1"

jahnnavi@DESKTOP-00P87Q6: ~/chatr
jahnnavi@DESKTOP-00P87Q6:~$ cd chatr
jahnnavi@DESKTOP-00P87Q6:~/chatr$ gcc -Wall -g3 -fsanitize=address -pthread client.c -o client
jahnnavi@DESKTOP-00P87Q6:~/chatr$ ./client
Please enter your name: jahnnavi
Connect to Server: 127.0.0.1:8888
You are: 127.0.0.1:52507
tony(127.0.0.1) join the chatroom.
betty(127.0.0.1) join the chatroom.
betty@ Hi! my name is betty from 127.0.0.1
> oh! hello nice to meet you
>

jahnnavi@DESKTOP-00P87Q6: ~/chatr
jahnnavi@DESKTOP-00P87Q6:~$ cd chatr
jahnnavi@DESKTOP-00P87Q6:~/chatr$ gcc -Wall -g3 -fsanitize=address -pthread client.c -o client
jahnnavi@DESKTOP-00P87Q6:~/chatr$ ./client
Please enter your name: betty
Connect to Server: 127.0.0.1:8888
You are: 127.0.0.1:52543
> Hi! my name is betty
jahnnaviB oh! hello nice to meet you from 127.0.0.1
>

```

User ends chat by “Bye” :

```
manu@LAPTOP-DDHEUOGA:~$ cd CAPG59/program/bin
manu@LAPTOP-DDHEUOGA:~/CAPG59/program/bin$ ./client1
Server is up and running..
Client 1 : hello
Client 2 : hi
Client 1 : i am from capgemini
Client 2 : even me too from capgemini
Client 1 : bye
manu@LAPTOP-DDHEUOGA:~/CAPG59/program/bin$
```