#### **CS594**

**Intended Status: IRC Class Project** 

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# **Internet Relay Chat**

## 1) Starting the server:



# 2) Starting the client:

```
*IDLE Shell 3.11.0*

File Edit Shell Debug Options Window Help

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32 *
Type "help", "copyright", "credits" or "license()" for more information.

***System of the Internet Relay Chat BY: MOUNISHA, GANESH, HANESH

ENJOY THE IRC SERVICES

Enter your UserName:
```

## 3) <u>Client registration:</u>

## 4) <u>List of Instructions:</u>

```
Gani:
help
Use the Commands Below
        join-room
                                                       Usage: join-room [room-name]
        exit-room
                                                        Usage: exit-room [room-name]
        chat-room
                                                        Usage: chat-room [room-name] [message]
                                                       Usage: pvt-msg [recipient-name] [message]
        pvt-msq
                                                        Usage: list rooms / list users / list members [room-name]
                                                        Usage: broadcast-msg all [message]
       broadcast-msg
       quit-irc
                                                       Usage: quit-irc
       help
                                                       Usage: help
```

## 5) <u>Creating a room:</u>

```
nelp
Gani:
join-room 308

You have joined a Newly created Room
Gani:
```

### 6) Joining a room:

```
Welcome to The Internet Relay Chat BY: MOUNISHA, GANESH, HANESH
ENJOY THE IRC SERVICES
Enter your UserName: mouni
You Have Been Enrolled successfully!!
To see the Instructions type "help"
mouni:
join-room 308
You have joined an Existing Room
mouni:
```

### 7) Send message to room:

```
You have joined a Newly created Room
Gani:
chat-room 308 hello

You have joined an Existing Room
mouni:

Gani - 308 says: hello
```

## 8) <u>Private message to user in the same or different room:</u>

```
Gani:
pvt-msg honey welcome to 308!!
Gani:
pvt-msg mouni glad you joined 308!!
Gani:
```

```
Gani says: glad you joined 308!!

Gani says: welcome to 308!!
```

9) <u>Number of rooms:</u>

```
Gani:
list rooms
rooms: '308', '219'
Gani:
```

10) Number of active users:

```
Gani:
list users

    users: 'Gani', 'mouni', 'honey'
Gani:
```

11) List of the members in the same room:

## 12) <u>Client can join multiple rooms:</u>

```
join-room 219

You have joined an Existing Room mouni:
```

### 13) MY rooms:

```
mouni:
my-rooms

My Rooms: '308', '219'
mouni:
```

### 14) Multiple clients can connect to a server:

### 15) Broadcasting the message to all members in group:

```
Gani:
broadcast-msg all Glad you guys joined 308!! Hearty welcome
Gani:

mouni:

Gani says: Glad you guys joined 308!! Hearty welcome

honey:

Gani says: Glad you guys joined 308!! Hearty welcome
```

## 16) Exit room:

```
honey:
quit-irc

Quiting out of the IRC Server
Hope you had fun Enjoying our IRC services!
```

```
mouni:
quit-irc

User honey Left IRC Server
mouni:

Quiting out of the IRC Server
Hope you had fun Enjoying our IRC services!
```

User honey Left IRC Server
Gani: Command\_Error1: Invalid Command.
Please type an valid command

User mouni Left IRC Server

### 17. Server can gracefully handle client crashes

Enter your UserName: gani

Registration\_Error: This Username is Already in use.

Please Enter a Different UserName
Enter your UserName:

## 18. Client can gracefully handle server crashes

```
Gani:
join room 308
Command_Error1: Invalid Command.
Please type an valid command
Gani:
```

Enter your UserName: Gani P

Username\_Error2: The Username should not contain any spaces Please type an valid UserName Again

Enter your UserName: