Government Engineering College, Thrissur

CS334 – Network Programming Lab

Documentation -

Exp3 – Multi User Chat Server - TCP

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Experiment 3

Implement a multi user chat server using TCP as transport layer protocol. (Automated Server)

Executing program

• Code is provided in **Client.java** and **Server.java** along with this documentation. You can open the terminal in Linux (Ubuntu 20.04 tested). Then run the command

javac Server.java java Server

• Open a **new terminal** and then run as many Clients as possible (3 Clients in test)

javac Client.java java Client

- Server and Client will start their respective sockets and work on the same machine (IP 127.0.0.1, Port 5000).
- This is a dis-continuous message sending system. So we can send data as the console prompts us to do so.
- We can see output side-by-side in the console
- To terminate program type "**Exit**" in both program
- Note: As per test case, we need to implement automatic server. So server will accept only following messages

Hi, I'm Client <*Number*>.

May I know who else are chatting with you?

*Message from Client <*Number*>*

Exit

P.T.O

Output / Screenshots

Server

Client 1

Client 2

Client 3

rhp@hp ~/Documents/56/Network Lab/Exp 3 master*)
-5 java Server.java rhp@hp ~/Documents/56/Network Lab/Exp 3 master*)
-5 java Server Server sevet created Client 2 connected Client 1. To Client 1 the lb Client 1. To Client 1 the lb Client 1. To Client 1 the lb Client 2. To Server: Whessage from Client 2 thing with you? From Server: But 1 Client 3. To Client3 the lb Client 3. To Client3 the lb Client 3. To Client3 the lb Client 2. To Server: Whessage from Client 3 the lb Client 3. To Client3 the lb Client 3. To Client3 the lb Client 2. To Server: Whessage from Client 3 the lb Client 3. To Client3 the lb Client 2. To Server: Sexit Client Sexit 1 the lb Client 2. To Server: Sexit 1 the lb Client 3. To Client3 the lb Client4 the lb Client4 the lb Client4 the lb Client4 the lb Cl