

VAATCHITT - P2P APPLICATION

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1.Application Details :-

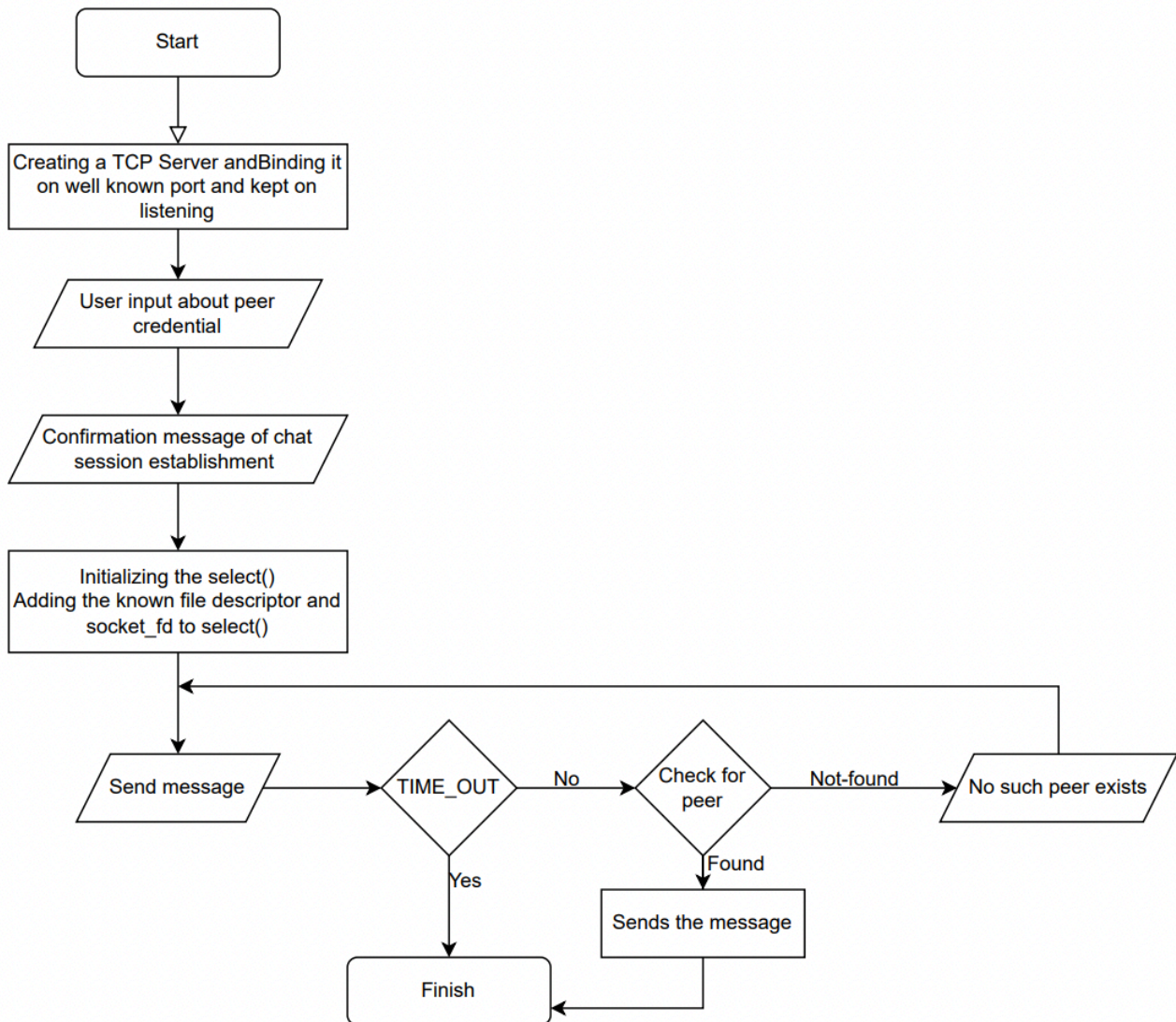
- Type - Peer-to-Peer Network
- Application Layer Protocol - DNS
- Transport Layer Protocol - TCP
- Network Layer Protocol - IP

2.About :-

- Vaat-Chitt Application is a chat room/Application software with GUI that works in your terminal.
- It can either be used to establish an encrypted one-on-one chat.
- It works on Port 5554.
- To send message After connecting to peers : < Name of that peer whom you want to send message > / < message >
- We will receive Message in form : < Name of peer from whom you received message > :- < message >
- Time-out application for initial Experimentation :- 120 sec
- Buffer size :- 1024
- No of peers max (Also We can change):- 5

3.Flowchart :-

Application FlowChart



4.Psuedo code :-

Step 01: Creating the TCP SERVER

Step 02: Ensuring socket reuse for ease of debugging.

Step 03: Binding to a well-known port now it is in listening mode.

Step 04: Accepting the user_info data structure and storing it.

Step 05: Initializing the select().

Step 06: Adding the known file descriptors-stdin and server_fd to select()

Step 07: Setting reference time for all future clock-based operations.

Step 08: Running in loop till user exits

Step 09: Checking last usage times of each of the peers, to TIME OUT...

Step 10: Got a Connection Request.

Step 11: Reading the message and separating the peer_name and message parts

Step 12: Connecting with that peer.

Step 13: Send the message.

Step 14: Stop

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Vaat Chitt
P2P Application

Running at port: 5554
Enter The details about the peer
Number of peers to connect :
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