|  |  |  |  |
| --- | --- | --- | --- |
| Sent by | Received by | Message | Purpose |
| Client | Server | Name(User name) | Store the identity of user |
| Client | Server | Message/information (command) | Choice from menu |
| Server | Client | Result | Information/data of the operation chosen from menu |
| Client | server | Invalid input (other than 1-7) | No operation (continue) |
| Client | Server | Exit (7) | If chosen 7 exit the application |
|  |  |  |  |
|  |  |  |  |

Client screen

 Please enter your name

jsh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.jsh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

2

Your Messages: 1.jsh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

3

Enter recipient's name

jsh

Enter a message

Hi

Your Messages: Message posted to jsh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

6

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

2

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

3

Enter recipient's name

Satwant

Enter a message

Hi

Your Messages: Message posted to Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

6

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

no I/O

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

4

Enter a message

Hi Folks

Your Messages: Message posted to Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

7

Your Messages:

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1Exception in thread "main"

C:\Users\satwa\Documents\CS5348\Project3\_1>javac Client.java

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

9

9 is not a valid choice

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

7

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Singh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant2.Singh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

8

8 is not a valid choice

C:\Users\satwa\Documents\CS5348\Project3\_1>javac Client.java

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

8

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Exception in thread "main"

C:\Users\satwa\Documents\CS5348\Project3\_1>javac Client.java

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwant

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

8

C:\Users\satwa\Documents\CS5348\Project3\_1>javac Client.java

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwbat

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwbat

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

8

8 is not a valid choice

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

7

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Singh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

1

Your Messages: 1.Satwbat2.Singh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

2

Your Messages: 1.Singh

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

3

Enter recipient's name

Satwbat

Enter a message

Hi Folks

Your Messages: Message posted to Satwbat

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

7

C:\Users\satwa\Documents\CS5348\Project3\_1>java Client "localhost" 4444

 Please enter your name

Satwbat

1.      Display the names of all known users.

2.      Display the names of all currently connected users

3.      Send a text message to a particular user.

4.      Send a text message to all currently connected users.

5.      Send a text message to all known users.

6.      Get my messages.

7.      Exit.Enter your choice:

**Server Side**

Server running on port 4444, use ctrl-C to end

Connection by unknown user Satwant

Satwant displays all known users.

Satwant exists

Connection by unknown user Singh

Singh displays all known users.

Singh displays all known users.

Singh exists

Connection by unknown user Sui

Sui displays all known users.

Sui exists

Connection by unknown user Syu

Syu displays all known users.

Syu exists

Connection by unknown user hgh

hgh displays all known users.

C:\Users\satwa\Documents\CS5348\Project3\_1>javac Server.java

C:\Users\satwa\Documents\CS5348\Project3\_1>java Server 4444

Server running on port 4444, use ctrl-C to end

Connection by unknown user Satwant