DESIGN DOCUMENT

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| --- | --- | --- | --- | --- |
| SERVER | Client 1 | Client 2 | Client 3 | Purpose of message |
| Server running on port 1026, use ctrl-C to end |  |  |  | Server stated |
|  | Connecting to giant.utdallas.edu: 1026 Enter your name: Shruti |  |  | Client 1 connecting to server with a name Shruti |
| Connection by unknown user Shruti | Text received: Hi Shruti |  |  | Server acknowledges the connection request and sends HI username |
|  |  | Connecting to giant.utdallas.edu: 1026 Enter your name: Sue |  | Client 2 connecting to server with a name Sue |
| Connection by unknown user Sue |  | Text received: Hi Sue |  | Server acknowledges the connection request and sends HI username |
|  |  |  | Connecting to giant.utdallas.edu: 1026 Enter your name: Sukriti | Client 2 connecting to server with a name Sukriti |
| Connection by unknown user Sukriti |  |  | Text received: Hi Sukriti | Server acknowledges the connection request and sends HI username |
|  |  | 2 |  | From the given options Sue selects 2. Display the names of all currently connected users. |
| Sue displays all currently connected users |  | Currently Connected Users:  Sukriti  Shruti  Sue |  | Server logs the request from Sue and sends the names of currently connected users to Sue |
|  |  |  | 3 Enter recipient's name Sam Enter a message Hello Sam | Sukriti selects option 3. Send a text message to a particular user and sends a message to unknown user sam and sam becomes a known user |
| Sukriti posts a message for Sam |  |  | Message Posted to Sam | Server records the request, serves it and acknowledges it by Message Posted to Sam message |
|  | 4 Enter a message Hello Connected Users |  |  | Shruti Selects  4. Send a text message to all currently connected users. |
| Shruti posts a message for all connected users | Message Posted to All Connected Users |  |  | Server records the request, serves it and acknowledges it by Message Posted to All Connected Users message. |
|  | 2 |  |  | From the given options Shruti selects 2. Display the names of all currently connected users. |
| Shruti displays all currently connected users | Currently Connected Users:  Sukriti  Shruti  Sue |  |  | Server logs the request from Shruti and sends the names of currently connected users to Shruti |
|  |  | 5 Enter a message Hello Known Users |  | From the given options Sue selects 5. Send a text message to all known users. |
| Sue posts a message for all known users |  | Message Posted to All Known Users |  | Server logs the request from Sue and sends the acknowledgement  Message Posted to All Known Users |
|  |  | 1 |  | From the given options Sue selects 1. Display the names of all known users. |
| Sue displays all known users |  | Known users:  Sukriti  Shruti  Sam  Sue |  | Server logs the request from Sue and sends the acknowledgement  By sending the known users names |
|  |  | 7 |  | From the given options Sue selects 7. Exit. |
| Sue exits |  |  |  | Server logs the request from Sue and removes sue from the list of connected user. |
|  | 2 |  |  | From the given options Shruti selects 2. Display the names of all currently connected users. |
| Shruti displays all currently connected users | Currently Connected Users:  Sukriti  Shruti |  |  | Server logs the request from Shruti and sends the names of currently connected users to Shruti |
|  |  |  | 5 Enter a message Hello fellas | From the given options Sukriti selects 5. Send a text message to all known users. |
| Sukriti posts a message for all known users |  |  | Message Posted to All Known Users | Server logs the request from Sukriti and sends the acknowledgement  Message Posted to All Known Users |
|  |  | Connecting to giant.utdallas.edu: 1026 Enter your name: Sue |  | Client 2 connecting to server with a name Sue |
| Connection by known user Sue |  | Text received: Hi Sue |  | Client 2 connecting to server with a name Sue this time as a known user |
|  |  | 6 |  | From the given options Sue selects 6. Get my messages. |
| Sue gets messages |  | Your messages: From Shruti, 04/18/18 01:41 PM, Hello Connected Users From Sukriti, 04/18/18 01:42 PM, Hello fellas |  | Server logs the request from Sue and sends the messages in inbox to Sue |
|  | 6 |  |  | From the given options Shruti selects 6. Get my messages. |
| Shruti gets messages | Your messages: From Sue, 04/18/18 01:41 PM, Hello Known Users From Sukriti, 04/18/18 01:42 PM, Hello fellas |  |  | Server logs the request from Shruti and sends the messages in inbox to Shruti |
|  |  |  | 6 | From the given options Sukriti selects 6. Get my messages. |
| Sukriti gets messages |  |  | Your messages: From Shruti, 04/18/18 01:41 PM, Hello Connected Users From Sue, 04/18/18 01:41 PM, Hello Known Users | Server logs the request from Sukriti and sends the messages in inbox to Sukriti |
|  | 7 |  |  | From the given options Shruti selects 7. Exit. |
| Shruti exits |  |  |  | Server logs the request from Shruti and removes Shruti from the list of connected user. |
|  |  |  | 7 | From the given options Sukriti selects 7. Exit. |
| Sukriti exits |  |  |  | Server logs the request from Sukriti and removes Sukriti from the list of connected user. |
|  |  | 7 |  | From the given options Sue selects 7. Exit. |
| Sue exits |  |  |  | Server logs the request from Sue and removes sue from the list of connected user. |

======SERVER LOGS=======  
Server running on port 1026, use ctrl-C to end  
04/18/18 01:40 PM, Connection by unknown user Shruti  
04/18/18 01:40 PM, Connection by unknown user Sue  
04/18/18 01:40 PM, Connection by unknown user Sukriti  
04/18/18 01:40 PM, Shruti displays all known users  
04/18/18 01:40 PM, Sue displays all currently connected users  
04/18/18 01:40 PM, Sukriti posts a message for Sam  
04/18/18 01:41 PM, Shruti posts a message for all connected users  
04/18/18 01:41 PM, Shruti displays all currently connected users  
04/18/18 01:41 PM, Sue posts a message for all known users  
04/18/18 01:41 PM, Sue displays all known users  
04/18/18 01:41 PM, Sue exits  
04/18/18 01:41 PM, Shruti displays all currently connected users  
04/18/18 01:42 PM, Sukriti posts a message for all known users  
04/18/18 01:42 PM, Connection by known user Sue  
04/18/18 01:42 PM, Sue gets messages  
04/18/18 01:42 PM, Shruti gets messages  
04/18/18 01:42 PM, Sukriti gets messages  
04/18/18 01:43 PM, Shruti exits  
04/18/18 01:43 PM, Sukriti exits  
04/18/18 01:43 PM, Sue exits  
  
=====Client Logs=========  
=====USER Shruti=========  
Connecting to giant.utdallas.edu: 1026  
Enter your name:  
Shruti  
Text received: Hi Shruti  
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.  
  
1  
Known users:  
 Sukriti  
 Shruti  
 Sue  
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.  
  
4  
Enter a message  
Hello Connected Users  
Message Posted to All Connected Users  
  
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.  
  
2  
Currently Connected Users:  
 Sukriti  
 Shruti  
 Sue  
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.  
  
2  
Currently Connected Users:  
 Sukriti  
 Shruti  
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.  
  
6  
Your messages:  
From Sue, 04/18/18 01:41 PM, Hello Known Users  
From Sukriti, 04/18/18 01:42 PM, Hello fellas  
  
  
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.  
  
7  
  
=========USER Sue============  
Connecting to giant.utdallas.edu: 1026  
Enter your name:  
Sue  
Text received: Hi Sue  
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.  
  
2  
Currently Connected Users:  
 Sukriti  
 Shruti  
 Sue  
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.  
  
5  
Enter a message  
Hello Known Users  
Message Posted to All Known Users  
  
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.  
  
1  
Known users:  
 Sukriti  
 Shruti  
 Sam  
 Sue  
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.  
  
7  
  
=========USER Sukriti=========  
  
Connecting to giant.utdallas.edu: 1026  
Enter your name:  
Sukriti  
Text received: Hi Sukriti  
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.  
  
3  
Enter recipient's name  
Sam  
Enter a message  
Hello Sam  
Message Posted to Sam  
  
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.  
  
5  
Enter a message  
Hello fellas  
Message Posted to All Known Users  
  
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.  
  
6  
Your messages:  
From Shruti, 04/18/18 01:41 PM, Hello Connected Users  
From Sue, 04/18/18 01:41 PM, Hello Known Users  
  
  
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.  
  
7  
=======USER Sue=====  
Connecting to giant.utdallas.edu: 1026  
Enter your name:  
Sue  
Text received: Hi Sue  
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.  
  
6  
Your messages:  
From Shruti, 04/18/18 01:41 PM, Hello Connected Users  
From Sukriti, 04/18/18 01:42 PM, Hello fellas  
  
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.  
  
7