Design

**Each listing is in chronological order**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Client sending to Server | Data sent from Client | Server sending to Client | Data sent from Server | Purpose |
| Name - James | James | nothing | nothing | To allow a user who is connecting to be identified on the server |
| Name - Nic | Nic | nothing | nothing | To allow a user who is connecting to be identified on the server |
| (Nic) 7 | Menu choice 7 | nothing | nothing | To allow a user to disconnect from the server |
| (James) 1 | Menu choice 1 | James, Nic | Names of all known users – James, Nic | To allow the Client to view all of the known users to the Server |
| (James) 2 | Menu choice 2 | James | Names of all currently connected users - James | To allow the client to view all of the currently connected users to the Server |
| (James) 3, Nic, From James, 04/13/16, 8:11 AM, hello/ | Menu choice 3, a message to a particular user, and a message for that particular user | Nothing | Nothing | To allow a user to send a particular message to a particular user regardless of whether they are connected or a known user at the time. |
| (James) 3, Nic, From James, 04/13/16, 8:11 AM, How are you? | Menu choice 3, a message to a particular user, and a message for that particular user | Nothing | Nothing | To allow a user to send a particular message to a particular user regardless of whether they are connected or a known user at the time. |
| Name - Ozbirn | Ozbirn | nothing | nothing | To allow a user who is connecting to be identified on the server |
| (James) 3, Ozbirn, From James, 04/13/16, 8:12 AM, Hi Professor | Menu choice 3, a message to a particular user, and a message for that particular user | Nothing | Nothing | To allow a user to send a particular message to a particular user regardless of whether they are connected or a known user at the time. |
| (Nic) 6 | Menu choice 6 | From James, 04/13/16, 8:11 AM, hello/  From James, 04/13/16, 8:11 AM, How are you? | All messages sent to Nic | To allow a user to see all messages that have been sent to them |
|  | Menu choice 6 | From James, 04/13/16, 8:11 AM, Hi Professor | All messages sent to Ozbirn | To allow a user to see all messages that have been sent to them |
| (James) 4, From James, 04/13/16, 8:13 AM, Hello everyone | Menu choice 4, a message to all currently connected users | nothing | nothing | To allow a user to send a message to all users currently connected to the Server |
| (Nic) 6 | Menu choice 6 | From James, 04/13/16, 8:13 AM, Hello everyone | All messages sent to Nic | To allow a user to see all messages that have been sent to them |
| (Ozbirn) 6 | Menu choice 6 | From James, 04/13/16, 8:13 AM, Hello everyone | All messages sent to Ozbirn | To allow a user to see all messages that have been sent to them |
| (James) 5, From James, 04/13/16, 8:16 AM, Hello to everyone, connected or not | Menu choice 5, a message to all known users on the Server | nothing | nothing | Allow a user to send a message to all known users to the Server whether they are connected or not |
| (Nic) 6 | Menu choice 6 | From James, 04/13/16, 8:16 AM, Hello to everyone, connected or not | All messages sent to Nic | To allow a user to see all messages that have been sent to them |
| (Ozbirn) 6 | Menu choice 6 | From James, 04/13/16, 8:16 AM, Hello to everyone, connected or not | All messages sent to Ozbirn | To allow a user to see all messages that have been sent to them |
| (James) 6 | Menu choice 6 | From James, 04/13/16, 8:16 AM, Hello to everyone, connected or not | All messages sent to James | To allow a user to see all messages that have been sent to them |
| (James) 7 | Menu choice 7 | Nothing | Nothing | To allow a user to disconnect from the server |
| (Nic) 7 | Menu choice 7 | Nothing | Nothing | To allow a user to disconnect from the server |
| (Ozbirn) 7 | Menu choice 7 | Nothing | Nothing | To allow a user to disconnect from the server |