

DMs Requirements

- > The user will be provided with a search bar to find other people who use the platform, using their username.
- > The search will be dynamic, matched results shall contain the prompt.
- > At most 20 concurrent users can search for an username.
- > The user shall receive a list of usernames ordered alphabetically.
- > The user will be allowed to change between ascending or descending results from the search using a button.
- > The list will contain at most 10 users.
- > A message will appear if no users are found.
- > A user can block / unblock another use, making them disappear / reappear in the search results.
- > A user can invite a person from the search results to a dm.
- > A received invitation can be accepted or declined.
- > After an invite has been sent, a new window will open representing the chat box.
- > A user can host at most 5 chat boxes.
- > A server is automatically configured with the IP address of the person who initiated the invite, alongside a port.
- > The server will store the name of the founder.
- > The server will make the founder an initial admin.
- > Communications will use TCP.
- > The server will wait 3 minutes for a second client to join, otherwise will close itself and the chat box window.
- > Initially, the server allows 20 clients, but can be changed by the founder to a lower value.
- > An admin can make a user an admin.
- > An admin can kick / mute a user who is not an admin.
- > The founder can remove any admins, kick / mute all users.
- > Initial constraints still apply once the number of users reaches 1.
- > Founder closes all connections and the chat box on leave, after announcing the other users with a message.
- > The application shall allow the user to type messages into an input box.
- > The application shall also provide the user with a button to send his message.
- > A message cannot be empty.
- > Messages are encoded in ascii.
- > The window shall not keep track of previous messages.
- > Messages will be preceded by the username of the sender.
- > A message shall have at most 500 characters.
- > Messages are sent within 1 seconds on an internet connection with at least 5 Mbps.