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Considerations
The point of this project is to create a no central server, public communications utility owned by the user base.

1. Revision History
The word "home" as showing in figure A, should be "Adv Search" (changed sept 1-2021)
Modification to Server vs p2p functions – wording changed for ease of use (changed oct 2-2021)
Question in 7.5 on phone app users added (changed oct 2-2021)
8.3 – paragraph 3 modified (changed oct 2-2021)
6.2 Dashboard revised. (changed oct 6-2021)
7.4 Take changed to Accepted (changed oct 6-2021)

8.2 Hide feature clarified (changed oct 6-2021)
8.3 NOTE added to bottom of page on sharing of user list data with searches. (changed oct 6-2021)
8.6 Un friend option improved. (changed oct 6-2021)
8.11 fragmented sentence fixed. (changed oct 6-2021)

5. Project Title "Sky" – Initial Details.

5.1 Purpose of App
To allow people to share information and talk in an un encrypted un censored platform where all users are responsible for their actions and the App is a public utility with no owner, no centralization and no real servers outside of what the user base create on their own

5.2 Scope of Work
Involved Actors
1. Admin (**see 6. Admin Features** page 3)
2. User/owner (**see 7. Paywall/utility ownership** page 5)
3. User/guest (**see 7. Paywall/utility ownership** page 5)

5.3 Instillation (more in
The app can be installed on windows, linux, mac, iphone or android.
The app will allow you to install it in one of two modes…

p2p App mode assumes you use a phone (and lets you set how much hard drive space you will dedicate to the app and have limited hard drive space – optional, not sure if phones can do this, if not or two expensive for v2.0, user will just have to clean up their phone when it is low on memory themselves).
User posts are shared with 2 servers so data can be interacted with when p2p app is offline.
Contacts each server it has a post on when you log into the system to update user comments, likes, and other content.

When user posts content it will ping the network, sharing the post with the server who has the highest, and the server with the lowest ping. If more then one server have such ping, it picks a server by alphabetical order, will keep picking servers until it finds two that can accept the post.

Server mode, assumes you are on a desktop and lets you set how much hard drive space you will dedicate to the app.
Servers share their post data with two servers on the network so the data can be interacted with when the Server is offline.
Servers host data for p2p apps when they are offline.

both are the same app – it is just a setting picked at instillation, dedicated hd space can be set in the user icon "**8.12 settings** page 16".

5.4 Log In / Account Creation
Once app is installed it prompt user to set a Username and Password.
Only one 1 username can be set, if a user with the same username is found, the user who has the oldest post in the system keep their user name, the other is prompted to change their user name.
As many as 3 passwords for the account can be set, the username and password can be changed in settings found in the User Icon.

6. Admin Features.

6.1 Login
Admin will be able to login with credentials via following details.
1. Username.
2. Password.
3. Above are used with an Admin App which is the normal app but with the following expanded functions.

6.2 Dashboard
Admin will be able to view dashboard for the following details.
1. Admin will be able to view total number of users both user/owner and user/guest.
2. Admin will be able to view each user/owner or user/guests unique app ID and last know IP address.
(this is just the apps own "know user list by IP" that can be brought up for the admin to look at)

3. Admin will be able to view name and billing address data tied to each user/owner.
(this will be tied into the billing info for purchase of the app)

4. Admin will be able to change number of people needed to conclude jury duty for all cases not pending judgment.
5. Admin will be able to change odds users may be selected for jury duty.
6. Admin will NOT be able to make such changes for an individual, such changes effect all users equally, once a change is made it will slowly propagate through the systems as users interact with each other and their apps pass the update around.
7. Admin will be able to Change Admin Password.

6.3 User Management.
1. Admin will be able to disable/ban users who have been found to be in violation of the TOS.
2. Admin will be able to use all normal app functions.

7. Paywall / Utility Ownership.

7.1 For a one time payment of $10.00, a Guest User can become part owner of this App.

7.2 User/owners can post not just text like a User/guest, but also post pics, videos, audio, files and polls.

7.3 End user agreement to be created – Will State the User for $10 is accepting part ownership of the app as a public utility, and that the user will take full responsibility and claim all liability for any legals issues they in their use of this app may cause. That they will not tamper with nor change the app software, reverse engineer it or modify the code in any way or under penalty suffer forfeiture of part ownership of the App, a fine no greater then 1 million dollars to be collected at the Admins discretion and deletion of account.

Further the Admin agrees not to change the site in anyway without the approval of 90% of the user base or to pay a fine of one million dollars to each individual user, further should a third party with to make changes without receiving approval from 90% of the user base, they will be required to pay each User/owner 1 million dollars to proceed with the forced change of personal property owned by the user bases User/owners. Exceptions to this Admin restriction is the admin can adjust the Possibility of jury duty and number or jury members needed to resolve a report without approval for one year from launch.

7.4 Server vs P2P functions
During instillation of the app, the user can install it as a "server" or "app"
If installed as an app it has all functions discussed within this wire frame.
If installed as a server, the app will also accept posts from other users and store it locally allowing their content to be seen/interacted with when the p2p app it is normally hosted from is offline.

This is done in the following way, when a p2p user makes a post, the app will ping the known user base, by ping it will then share a copy of the post to the server with the lowest and highest ping, if more then one server tie, it goes through the usernames in alphabetic order, if a server is full or unable to take the data it moves on through the servers by usernames in alphabetic order until 2 servers have the post.

7.5 User Base Listing
Each app/server when interacting with one another will share its built in user base list.
User base list will show all known users by unique app ID, last know IP address and date seen.
Apps will update their list so by most recent data and add unknown users. (**see 8.3**)
List will also show groups the user is apart of (**see 8.11**)
Can we have Users known by phone number to bypass IP?

7.6. Hosting
All content will be hosted off the users device.

...

8. The App in Use

8.2 Home
Once logged in you will be presented with the home screen.
On desktop the lay out will be set for wide screen, See "Figure A".
On phones, See "Figure Aphone", you swipe up to access the group and friends search, See "Figure Up" on page 14 "section 8.11 Groups"
On login the app will ping and get new post data back from other users for a "search" showing newest posts.
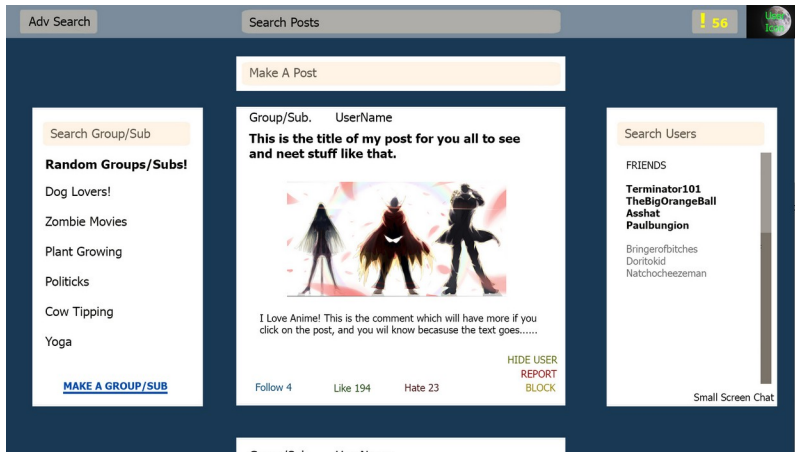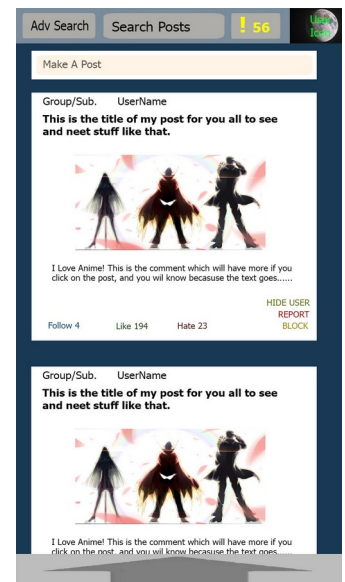
Figure A   **Figure APhone**

Functions

Right click (or press hold on phone) on a posts likes, hates or follows to see a list
of all users who likes/hated/followed it. (*not shown – make pic for wire frame*)
Left click or tap on phone – on like, hate, or follow to give them 1 like, 1 hate, or 1 follow (follow turns into "unfollow" on all of that users posts so you can unfollow them.
Hide – you can no longer see hidden user – your app pretends their app does not exist, does not respond to their app, will not contact their app, ends all ability to get data from or send data to hidden user in any way or form. Hide turns into Unhide, if you perform a new search and lost the post you can never unhide them making it a permanent hide (needs pop up to node "this is permanent and cannot be undone, are you sure?")
Block – Users can see each other but not interact with each others posts/content. (block turns into Unblock)
You kick someone out of your group by blocking or hiding them. (See page 11, section 8.11 groups)
Report user – See page 11 section "**8.8 Reporting a User**"

8.3 Search

Figure B

By clicking on the search function – see "figure B", you can type in a keyword or phrase such as "CHICKENS!", the app will then ping all known app users by last known IP (or phone number?) asking for the keyword or key phrase being searched. (**see 7.5**)

The other apps if having relevant data based on title or comments will share back with the searching app.

The searching app will then generate a list in the center (blind search shown in "figure A" is a login search showing the most recent posts, if no search keyword / key phrase is given it does a blind search to see what all users have posted and starts making a list which is what we see in "Figure A").

This list can then further be organized (as seen above in figure B), by…
Most hated (most dislikes)

Figure BPhone

Most Likes (most likes)
Least Seen (fewest user interactions - least, likes/hates)
By date or date range
By user name
By All data, OR just the Posts or Comments with the keyword of phrase you seek.

The longer the search is allowed to run, the more complete the list will become. All search results will temporarily be stored to the app.
This data is erased to make room for new data from new searches if space is needed. Stops searching if search storage is full.

If a search is in progress and you click on search, the old search keyword remains until the user removes it, allowing the user to adjust the organization of the search. By clicking or pressing enter after setting your basic search it will readjust the order it is showing the information it currently has and keep searching.

If a new search keyword key phrase is added it will start searching for the new data and place it in the desired format as data comes in.

Old search data still in the app will be brought back instantly as the information is local, further this data can be found by other users letting a post be seen even if the poster is off line. NOTE: This is the server function, but on a P2P system it assumes you do not have the hard drive space to be a dedicated server so post data is NOT handed off to your P2P app like with a server.

NOTE: when you search, your user list is sent with your search updateing all apps online with your known user list – they if responding also send their user list updating your app with their known user list data.

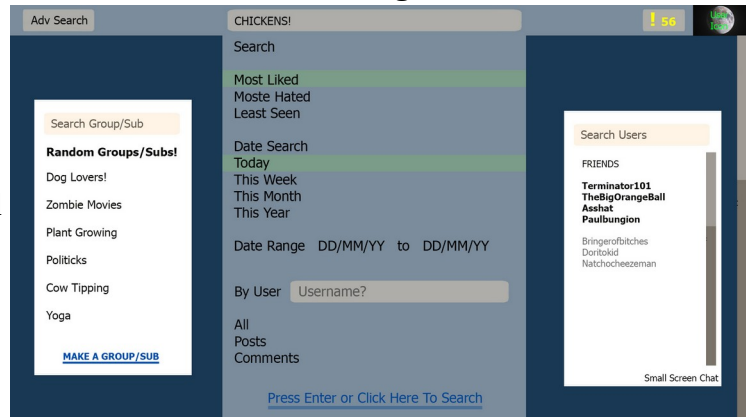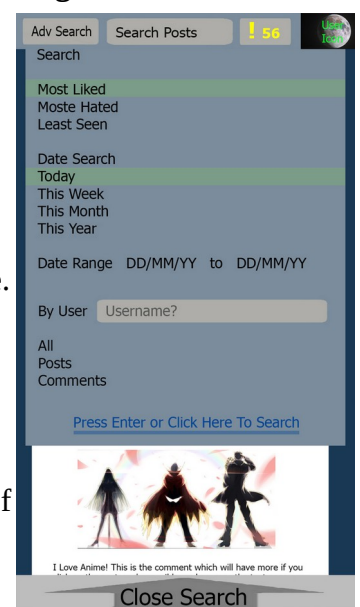**8.4 Advanced Search.**
If you press Adv Search in the top left it brings you to the advanced search filter.

Here you can
"green light" – shows posts from
or
"red light" – does not show posts from

If you green light friends you can see all friends posts and by specific friend you can green/red light.
If you green light groups, you can see all posts from the groups you are a part of and then in specific groups you can green/red light who you do and do not want to see from at the moment.
If you green light following, you can see all posts made by people you follow and by specific following you can green/red light.

Note the scroll bar so you can scroll down this list.

If you redlight Friends, or Group, or Following, "specific friend/group/following" is greyed out and none of the people or groups of that will be shown.

See "figure I" for visual representation.

Figure I   **Figure Iphone**

8.5 Make Post

Figure C

NOTE, the "photo" "video" "link" "zip" "pole" text allows users to search their device for data vs drag and dropping, only user/owners can use this, for user/guest it is greyed out an inactive.

If in "Figure A" you click, "Make Post", you are brought to what you see in "Figure C".

Figure C Phone

You can add a title (this is a keyword key phrase search point).
You can click on group to have it posted under any group you are a part of.
You can add text where you see the "I love Anime!" as this is a fake text post to show where it goes. (also a keyword key phrase search point)
User/owners can share text, photos, videos, links, zips, and polls and can search everything.
User/guests can only share text – and can search everything.
Press Post Comments when you are ready to make your post, Pressing Back erases the post and goes back to the home page.

All data shared in a post is stored locally on your device and shared to other apps when your device is pinged by another user looking for a search query by key word or key phrase that matches that posts title or comment key word / key phrase content on your app or its temp stored locally.

Figure C2

Figure C2Phone

Users viewing a post can make comments to the post or other comments in the post, as well as "like", "hate", "follow", "hide" and "report" See "Figure C2" or "FigureC2Phone".

8.6 Direct Message

Below we will use the Phone box for Messaging, "Figure D" is how it normally looks, once you select a friend they are highlighted… Friends online are **Bold**, Friends offline are greyed out See "Figure E".

Figure E

Figure D

You can also Search Users here, but you must type in their username exactly and then search, at that point you can direct message them if found, if they accept you are friends, to unfriend someone hide, block them, OR right click (press and hold on phone) and it will bring up a notice "un freind?" with a Yes No.

Once you click on a friend they are highlighted in green
See "figure E" vs un highlighted "figure D"

You can then press the "full screen chat" which will bring you to

"Figure F" for PC and "Figure FPhone" for phone

Figure F

Figure FPhone

The full screen chat box has all the same functions as making a post, but only you and the person you are texting directly can see the content.
The chat box will note the time a message was sent.
Clicking "small screen chat" in the lower right takes you back to the Home Page.
Full screen chat box data older then 1 week is deleted.

If someone sends you a text, a "!" will appear next to their name, further in the top right of the screen is a box with a "!" in it followed by a number, this is the number of alerts you have.

8.7 Alerts/Notifications

When your posts or comments are interacted with or you get a direct message, an alert will be generated.
When your friends send you a direct message, and alert will be generated.
The box in the top right with the   !   will then number how many alerts you have pending review, in "Figure H" 56 alerts are pending review, if you click on the   !   You see what is shown in "Figure H"

Figure H

Figure HPhone

Click on any "Respond?" to type and send a response directly to the source of the alert.
Alerts from posts will have a hyper link to that post.
All other alerts will be direct messages.

8.8 Reporting a User.

If a post or comment is a problem a user can report it by clicking "report" on the post/comment.

The user can then state their issue with the post/comment and submit it for review.
The reasons for a report is
1.) stolen content (user is in the content and gave no permission)
2.) unlawful content (criminal act is shown)

When finished they can post their report

See "figure J"

Figure J   **Figure JPhone**

Once a report is made, the app and the 2 servers hosting the post will notify users who interact with the server or the app that a jury is needed to review the report. These three system will share jury report data until one of the 3 options a jury member can respond with are chosen 1000 times.

8.9 Call for Jury Duty

A RNG is rolled every day, on a 1 you can accept jury duty, on 2-100 you cannot and will not be asked. You can only be asked to take part in jury duty once a day.

If you perform a search and reach an App or Server with a Report it will pop up a notice for jury duty, see "Figure K"
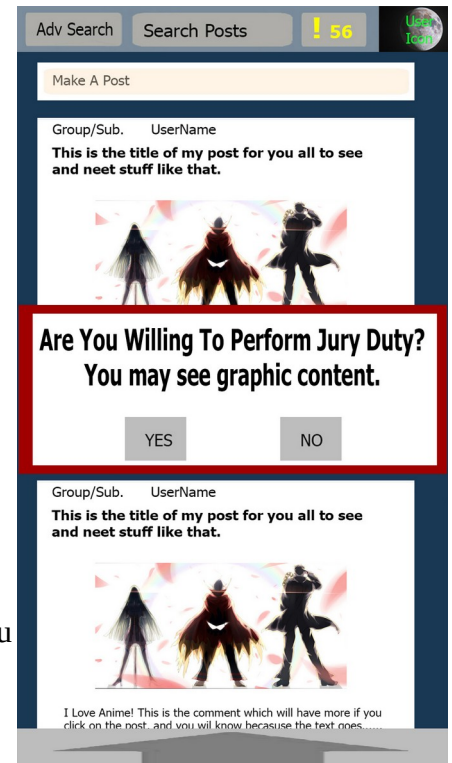
Figure K   **Figure KPhone**

If the user picks yes, they will see the report.
If the user picks no, they will go back to normal use of the app.

NOTE: use "Figure K Phones" - are you willing to perform jury duty? You may see graphic content – phrase on Desktop as well.

8.10 Jury Duty
 – see "Figure L"

A user can say the content is

1.) content is stolen – and thus de indexed
- if this happens the user is informed their content was de indexed and allowed to appeal in writing to the jury with a 5000 character response to justify their acts, if the jury agrees they are re indexed, if not the content stays de indexed and will no longer show in searches.

2.) content is criminal – and thus de indexed
- if this happens the user is NOT informed their content was deemed criminal and deindexed.
An alphanumeric label is given to the post and the 2 servers it is on, this label is given to the jury who can then give it to law enforcement in real life.
Using this alphanumeric label in a search will bring you to the report so they can proceed with criminal investigation.
Post is locked on the 2 servers it was shared to ensuring proof of crime is not lost.

3.) False Flag – report is ignored.

The app and 2 servers involved will share their jury responses with each other.
Once 1000 users have chosen one of these three options the system moves forward with that option, this said it is possible 2998 users will be called for jury duty if 999 say 1, 999 say 2, and finally 1000 say 3 causing the system to act on option 3.
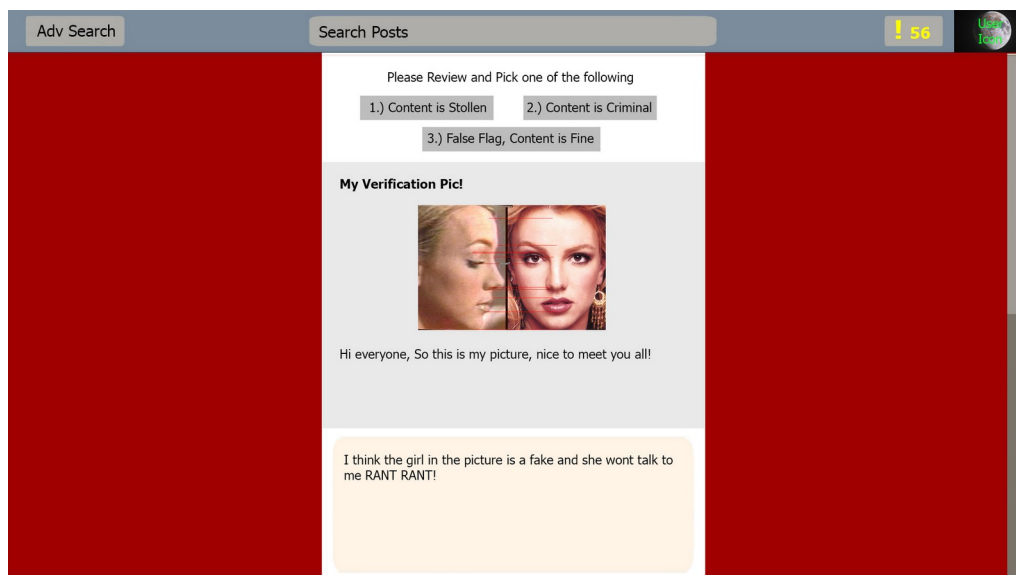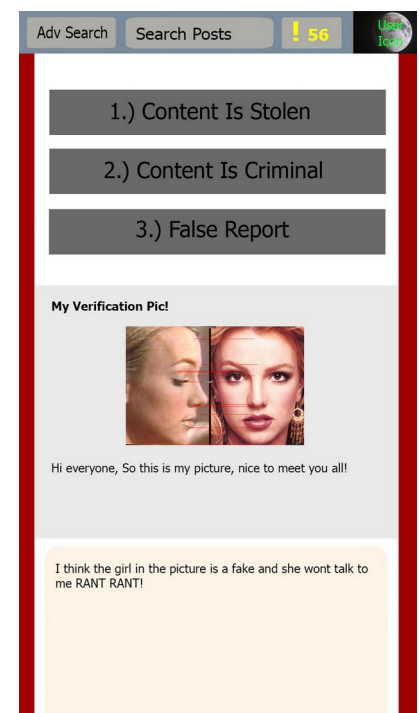
Figure L   **Figure L Phone**

8.11 Groups
Join Group
In "figure A" You can search groups/sub or on a phone you can swipe up to see "Figure Up" letting you reach the search group function/page.

As you type in the group name it will replace all random groups currently shown with groups whose name has that letter combination within.
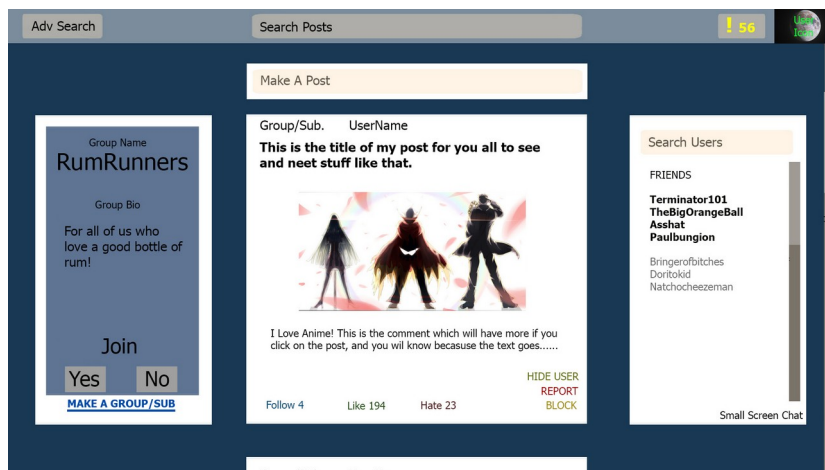See "Figure GroupSearchPhone"

Each app will list all the groups it is apart of on its own local file with the Username/IP list.

If no user for the group you are searching for is online, you cannot find the group. (**see 7.5**)

Once you have your group list generated you can click on a group.

If you click on a group it will give you the option to join. See "Figure Join"
If you click no it takes you back to the group search.

Figure Join

Figure Up

If you search up a group you have joined you can leave.
The word "Join" yes no, will be replaced with "Leave" yes no.

To get ride of a group you made, you must leave the group.

Figure GroupSearchPhone

Creating Groups.
Each User can create 1 group.
If you click create group you will be asked to make a Bio and name the group, See "Figure Make"

Anyone you block or hide cannot be apart of your group, if they joined already they will be kicked out.
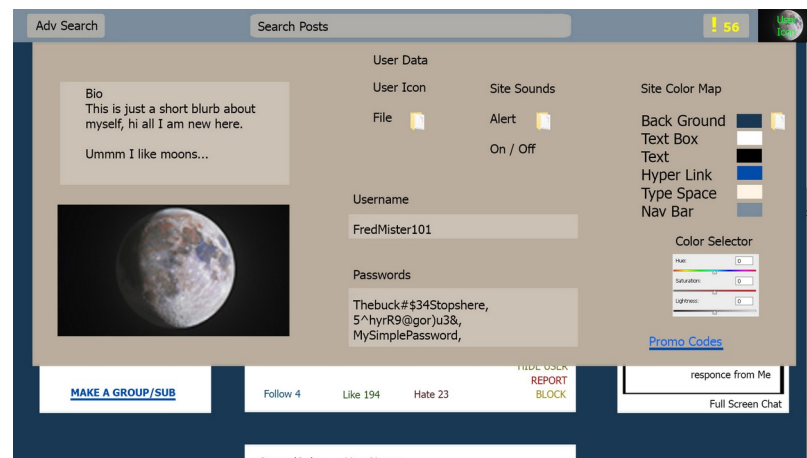
Figure Make

Figure MakePhone

Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M

8.12 Settings

If you click the user icon it will bring you to the settings page.

Here you can,
Make a Bio.
Post a User Picture.
Select a sound file to play when an alert happens.
Pick the colors used by the app.
Set your username.
Set up to 3 passwords.
Get Promo Codes to share with new users.
See "Figure Settings"
(ADD TO FIGURE SETTINGS PIC – Limit how much HD space the app will use to hold search data or as a server)
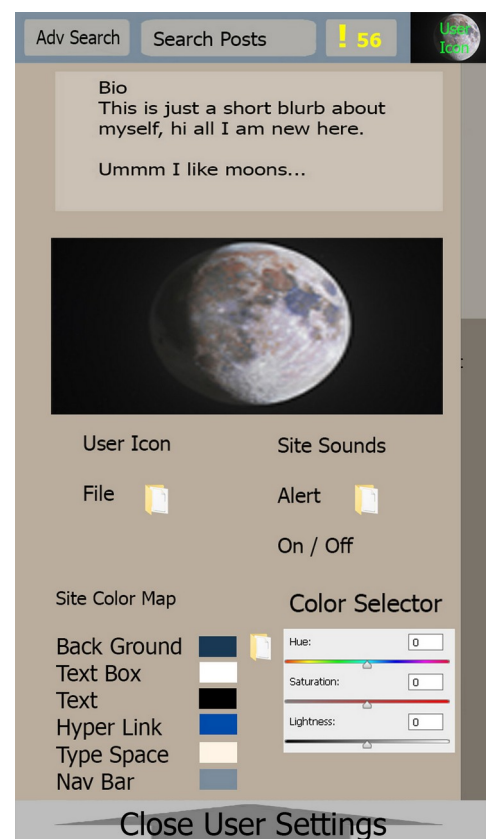
Figure Settings

NOTE, back ground color can be a color, or you can select a file to place an image as your back ground. Other users will never see your back ground or GUI color scheme unless you post a picture of it.

On the phone, the setting screen will have a scroll bar so you can scroll down giving you access to all the same information.

Figure SettingPhone

8.13 Promo Code <!--OPTIONAL may not be used in V2.0-->

The promo code allows users who are going through the paywall to get the product at 50% off and half of the sale goes to the user who got them to join (once a 3 month time frame has passed and the new user has both not gotten a refund and been active on the site every day for at least an hour)

This part of the project is highly optional as I am unsure how to best get money back to a user base, the promo code would be accessible via settings if implemented, and would look as follows.

Greyed out promos are used, you can only get 10 at a time and can make new ones when ever you want. The first half of the promo code should be used to ID the app giving the promo code.