Screen Sketches

3_Swarna_2

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BeatMatch

Actors

1. Users
   a. Follow others
   b. Like songs/dislike songs (liked songs added to 'liked songs list'
   c. Create playlists

2. Influencers (have all the same privileges as Users, plus)
   a. Send messages to followers
   b. Push specific music or genres to followers

3. Admins (have all privileges prior, plus)
   a. Controlling Leaderboards (rankings, genres, types of sorting)
   b. Can promote Users to Influencers
   c. Able to delete (ban) users
   d. Generate specific genres/categories of music to push to users.

Non-Functional Requirements

- The application must support at least 1 of every user level (user, influencer, admin) at once

- The application must take at most 0.5 seconds to respond from interacting with UI elements (buttons, swiping music, adding songs to playlists, etc.)

- The application must be written in a way that allows for the expansion of pages, user types, music organization tactics, etc.

- The application must be written in a way that is easy to understand/diagnose issues if not accessed by the author.

- The application must protect the personal information of users, influencers, and administrators.

- The application must prevent messages containing explicit content or other users' personal information.

Tables and Fields

- User: tracks information about any user
  - User ID (Primary Key)
  - User first name
  - User last name
  - User email (user@email.com)
  - User security question choice (1,2 or 3)
  - User security question answer (recorded answer
  - Hashed password
  - Account visibility (public, private)
  - Active account (used for determining account status, for easy removal if necessary)

- Liked Songs: record the songs a user has liked
  - Song ID (Primary Key)
  - Song Name
  - Song Genre
  - User ID (Foreign key)

- Playlist: table for recording the stats of a playlist
  - Playlist ID (Primary Key)
  - Playlist Name
  - Creator User ID (Foreign Key)
  - Creation Time
  - Playlist Picture (optional here)

- Privilege: Tracks user's sight privileges (used for certain buttons or features limited to higher permissions)
  - Permission ID (primary key)
  - User ID (foreign key to user table)
  - Access level
  - Date granted
  - Date revoked
- Follow: tracks when a user follows another user, can be used for pushing user tastes to another user.
  - Follow record id: primary key
  - Follower user ID: foreign key to user table

- ○ Followed user ID: foreign key to user table
- ● Pushed Music/Genres
  - ○ Genre ID (Primary Key)
  - ○ Song Id (Primary Key)
  - ○ Time pushed
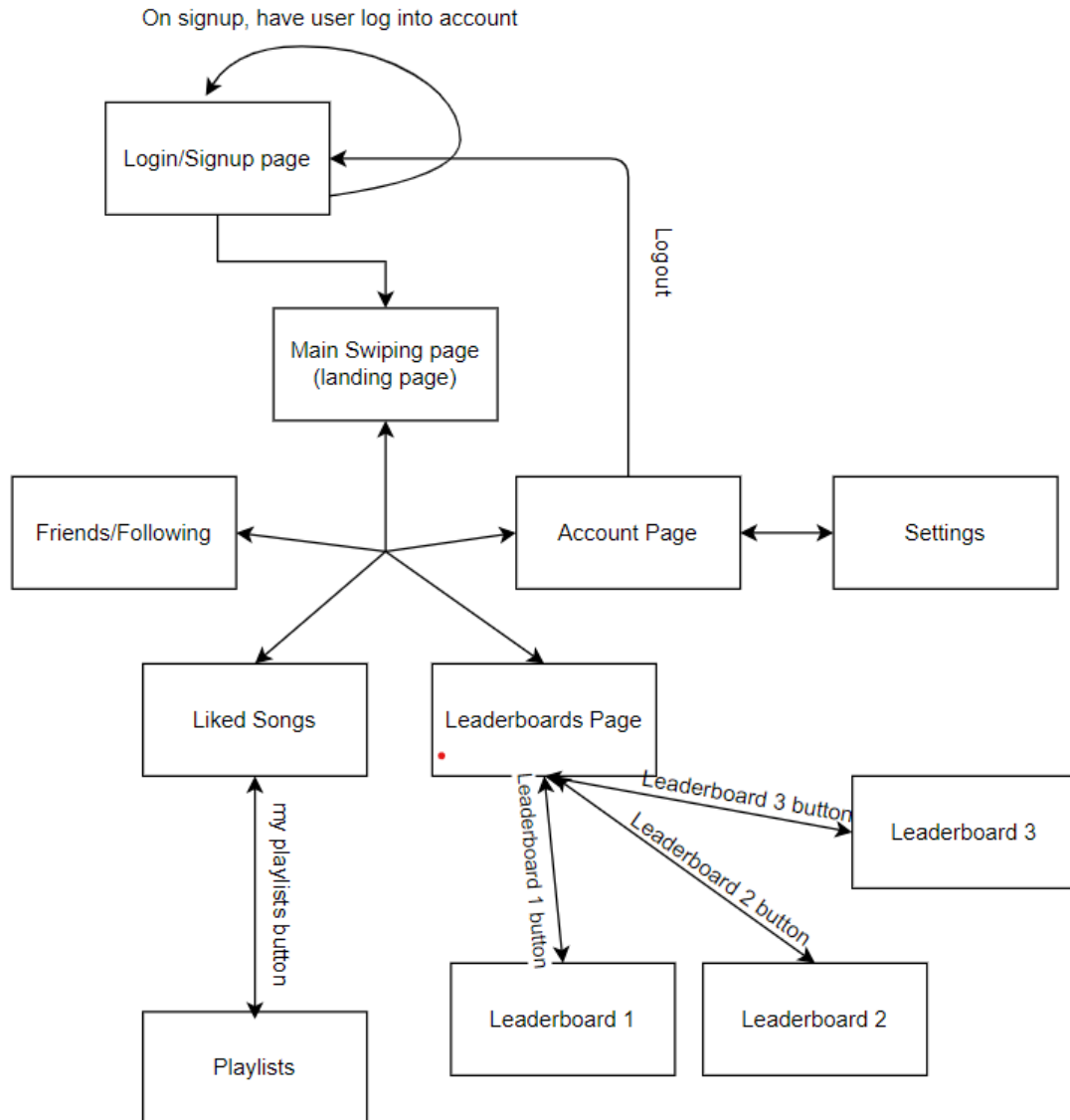 - ○ Push message

Group Chats

- ● **Chat ID** (Primary Key)
- ● **Chat Name** (customizable by user)
- ● **Chat Picture** (customizable by user)
- ● **Creator User ID** (Foreign Key referencing User table)
- ● **Creation Time**
- ● **Last Activity Time**
- ● **Members** (list of User IDs participating in the chat)
- ● **Is Group Chat?** (boolean value to determine group or individual chat)
- ● **Chat Customizations** (settings for changing chat details like name, picture)
- ● **Kick Permissions** (boolean value, only for chat creator)
- ● **Archived Status** (determines if chat is archived or active)

Events and Concerts

- ● **Event ID** (Primary Key)
- ● **Event Name**
- ● **Event Date**
- ● **Event Location** (could be physical or online)
- ● **Event Type** (concert, virtual jam session, etc.)
- ● **RSVP Status** (whether a user has RSVP'd)
- ● **Friends Attending** (list of User IDs attending the event)
- ● **Event Filter**:
  - ○ **Closest Date**
  - ○ **Nearby Events**
  - ○ **Just Posted Events**

Flow Chart

On signup, have user log into account

Login/Signup page

Main Swiping page (landing page)

Logout

Friends/Following

Account Page

Settings

Liked Songs

Leaderboards Page

Leaderboard 3 button

Leaderboard 3

my playlists button

Leaderboard 1 button

Leaderboard 2 button

Playlists

Leaderboard 1

Leaderboard 2

Screen Sketches
Griffin: Main Swiping Page & Account page
Lawson: Playlists view and Friends/Following
Om: Friends group chat & event board (for concerts and music festivals)
Kasson: Liked songs & Leaderboards page

Figure 1 - MAIN SCREEN (Griffin): This screen serves as the app's home page and landing page. Displaying the main feature of the app, the music swiping feature.

(1) sends users a messagedepending on daytime (ex. "good morning,"" good afternoon," "good evening," as wellas the user's name. (2) refresh the song selection, replacing the current one with a new list of songs. (3) is the main feature: The list of songsthat the user will swipe right or left onto show they like or dislike the song, asrepresented by the minus sign and heartto the left and right of the list. (4) Will display the remaining songs in the given list. Updates when the list is emptiedor refreshed with another list. (5) is the first element in the lower navbar, this leads to the users liked songs page. (6) Leads to the leaderboards page. (7) Is the currently selected page and will be highlighted to distinguish it from other tabs to show the current activity open. (8) Will lead to the friend's page. (9) Will lead to the account page. (10) is the lower navbar that will hold links to every other central activity screen on the app.

Figure 2 - ACCOUNT SCREEN (Griffin): This screen is the account home page. It will display all relevant user information, as well as links to change information, log out, request new permissions, and change account visibility.

(1) Is the account information header used to welcome the user and display their name and profile picture (2) This button can display important update information about the app, but also the steps to request an account upgrade. (3) will disable or enable notifications. (4) will log the user out and return them to the login/signup activity. (5) Is the user information body; this displays the username, first and last name, and email. (6) the privacy information body, which displays the password and account visibility status. (7) it will change the user's personal information; they are required to enter their existing password before changes are saved. (8) is the change account visibility button. This allows users to be discovered by others or not. (9) will change the user's password; their original password must be entered first. (10-15) contain the lower navbar links described in the previous page. (14) will be highlighted to show it is selected.
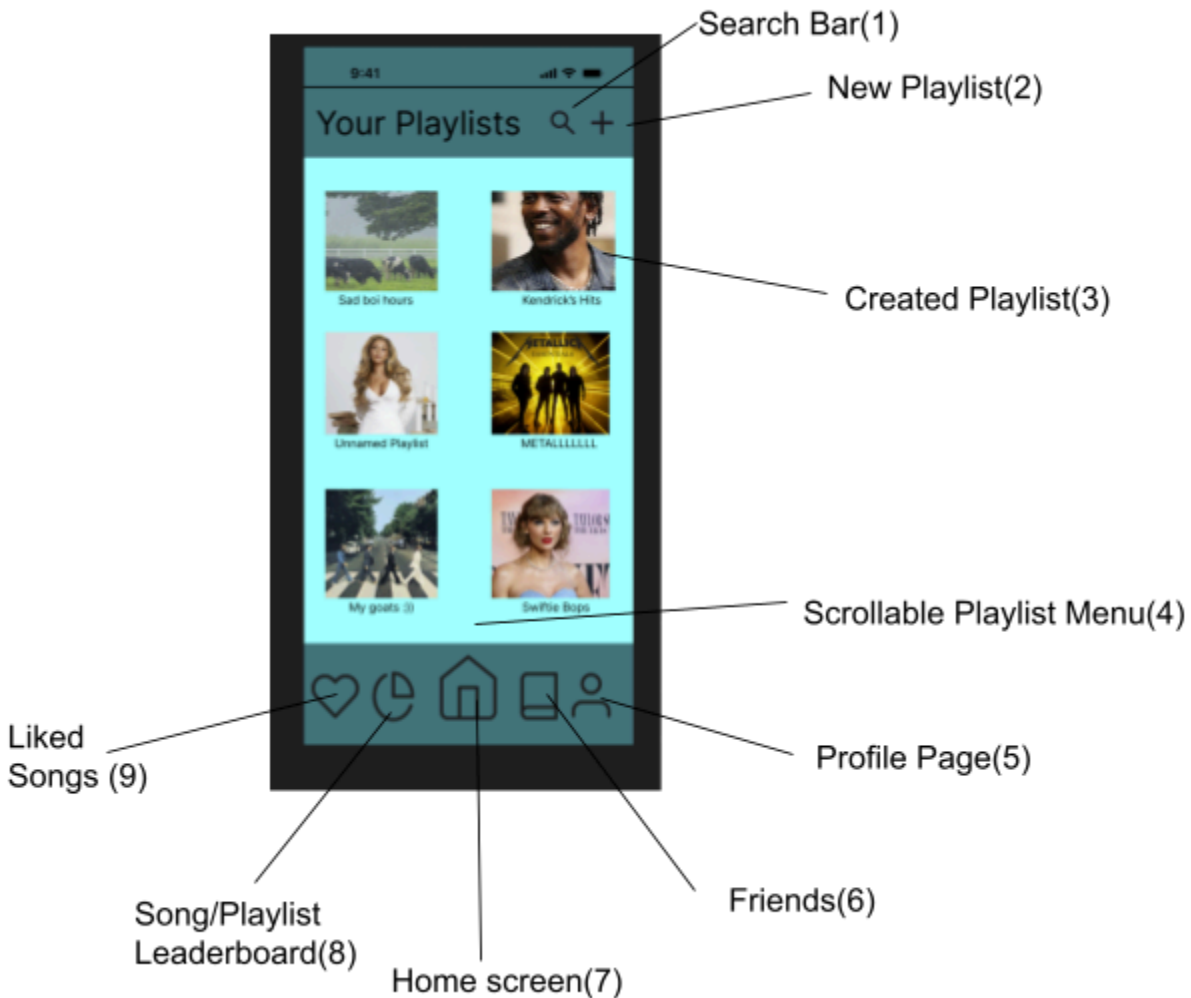
Figure 3 - Playlist View (Lawson)

The playlist view is where you are going to be able to see the different playlists you've created. You can click on the playlist to then view the individual songs that are in that playlist. Playlists can have different pictures and you can name the playlist whatever you want, which will be updated and displayed in the playlist view.

1.) The search bar is where you can search by the playlists you've created
2.) The new playlist button creates a new playlist and brings you to the playlist creation screen
3.) The created playlist feature shows a representation of a created playlist on the playlist view screen. Tapping on the playlist will bring you to the playlist view
4.) The scrollable menu allows for a dynamic way to view all of your created playlists
5.) Your profile page button
6.) The friends view button
7.) The home swiping screen button
8.) The song/playlist leaderboard button
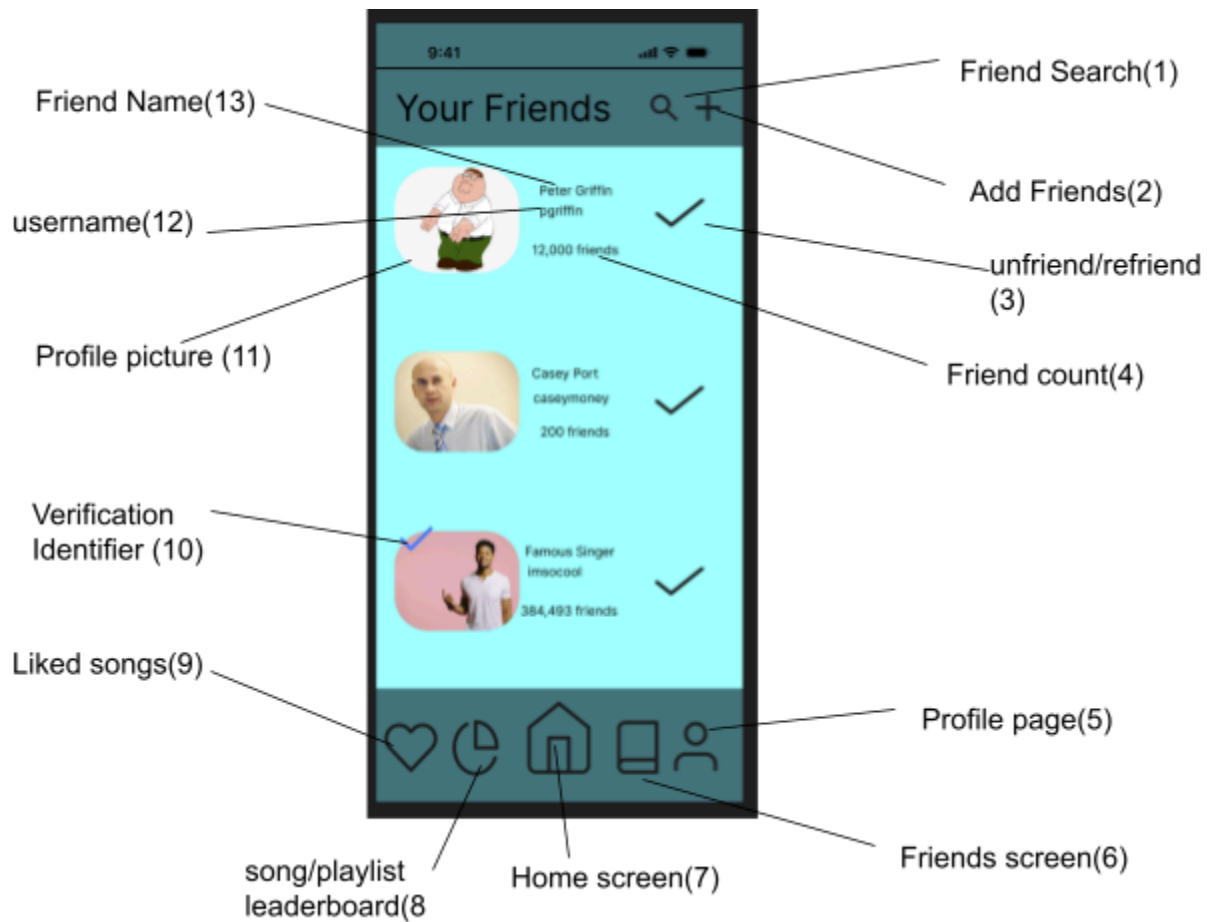9.) The button to switch to the liked songs view

Figure 4 - Friends/Following (Lawson)

This page is responsible for showing your active friends. The page displays an entry for each friend you have, with some personal information about them to identify which friend you have. There is a button to unfriend someone in this menu, as well as an identifier for an influencer account with the blue checkmark

1. A search bar function to search your friends by name/username
2. A button to pull up a menu to add mutual friends
3. A check mark to be able to quickly and easily unfriend someone you might not recognize
4. The friend count entry under a person's "friend profile," displays the amount of friends they currently have
5. Button to go to the profile page
6. Button to go to the friends screen
7. Button to go to the home screen
8. Button to see the songs playlist/leaderboard
9. BUtton to view your liked songs
10. Verification identifier to see which friends are on "artist/influencer" status
11. Friends profile picture
12. Friends username
13. Your friends name

Figure 5 - Group Chats

Figure 5 - Group Chats (Om): This screen is the group chat page. It will display all relevant group chat information, activity, time last not open, customization, and create new group chats.
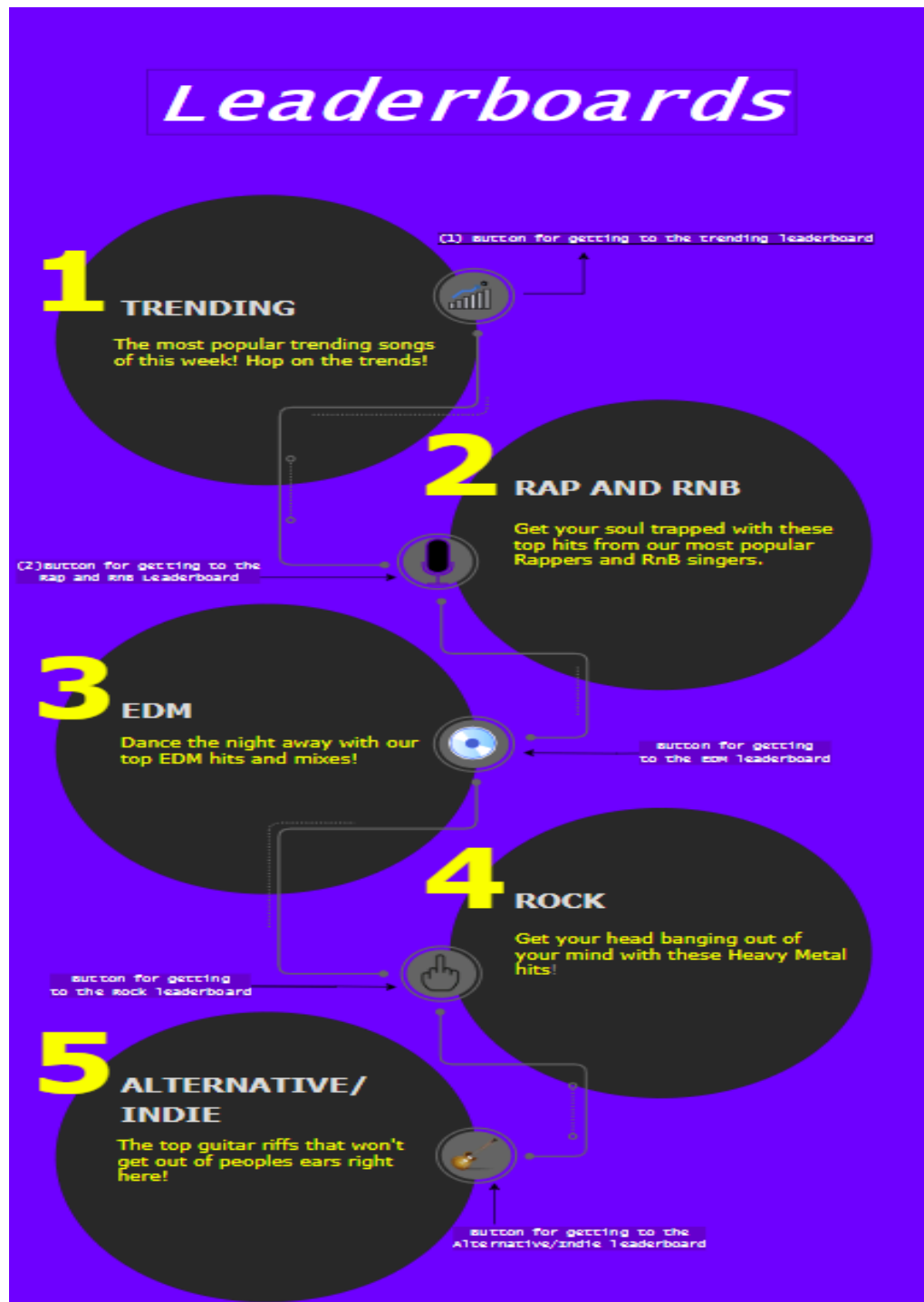
Users will be able to switch between group chat vs individual. User can choose to talk to their friend individually or in groups. Able to make group chat and add friends, where the user can customize group chat photo, group chat name, and which members they want to add. This means they can change the customization anytime they want. This also allows them to kick out anyone anytime as they created the group chat. It will fetch the group chat by the last activity and show it so the user can quickly glance over it. The bottom contains the lower navbar links described on the figure 1 page.

Figure 6 - Liked Songs: This figure shows the liked songs page, the user can see their top 5 liked songs, how much they have listened to them as well as what ranking they were in.

(1) This is the button for users to navigate to their playlist page. They will go through the liked songs page in order to see their favorite songs and find their way to the playlists that they have created. (2) This is a down arrow button used for expanding the liked songs page. Just in case any users are curious about what songs nearly made it into their top 5 and how long they listened to them.

Figure 7 - Leaderboards: This figure shows the leaderboards page, there is navigation to 5 different leaderboards in the current top 5 categories in the form of buttons users can click on.

(1) This is the button used to navigate to the trending leaderboard and the songs that are currently at the very top trending and leading the trends. (2) This is the button used to navigate to the leaderboard of top Rap and RnB songs. This trend continues for the next leaderboards and their respective categories, from EDM, to Rock, and alternative/indie. All are configured with a logo to make the process easier.

Figure 8:

Figure 8 - Events and Concerts page (Om): This screen is the event and concert page. It will display all relevant dates with information about events, the event's date, and the event's location.

Users will be able to switch between smart stacks vs calender view. Users can choose to add an event or rsvp through the app. Once they click on an intelligent stack, they can see which friends are going and if they want to rsvp. Once they rsvp, they will be taken to a page showing location details, date and name of said event. Events don't have to be physical; people can have a listening party or jam session online. They can also filter to see if an event is nearby, the closest date, and just posted. The bottom contains the lower navbar links described on the figure 1 page.