Milestone 2
Team Gloin

Team Members: Vi Le
Laura Anne Didyk
Purab Heera Budhwani
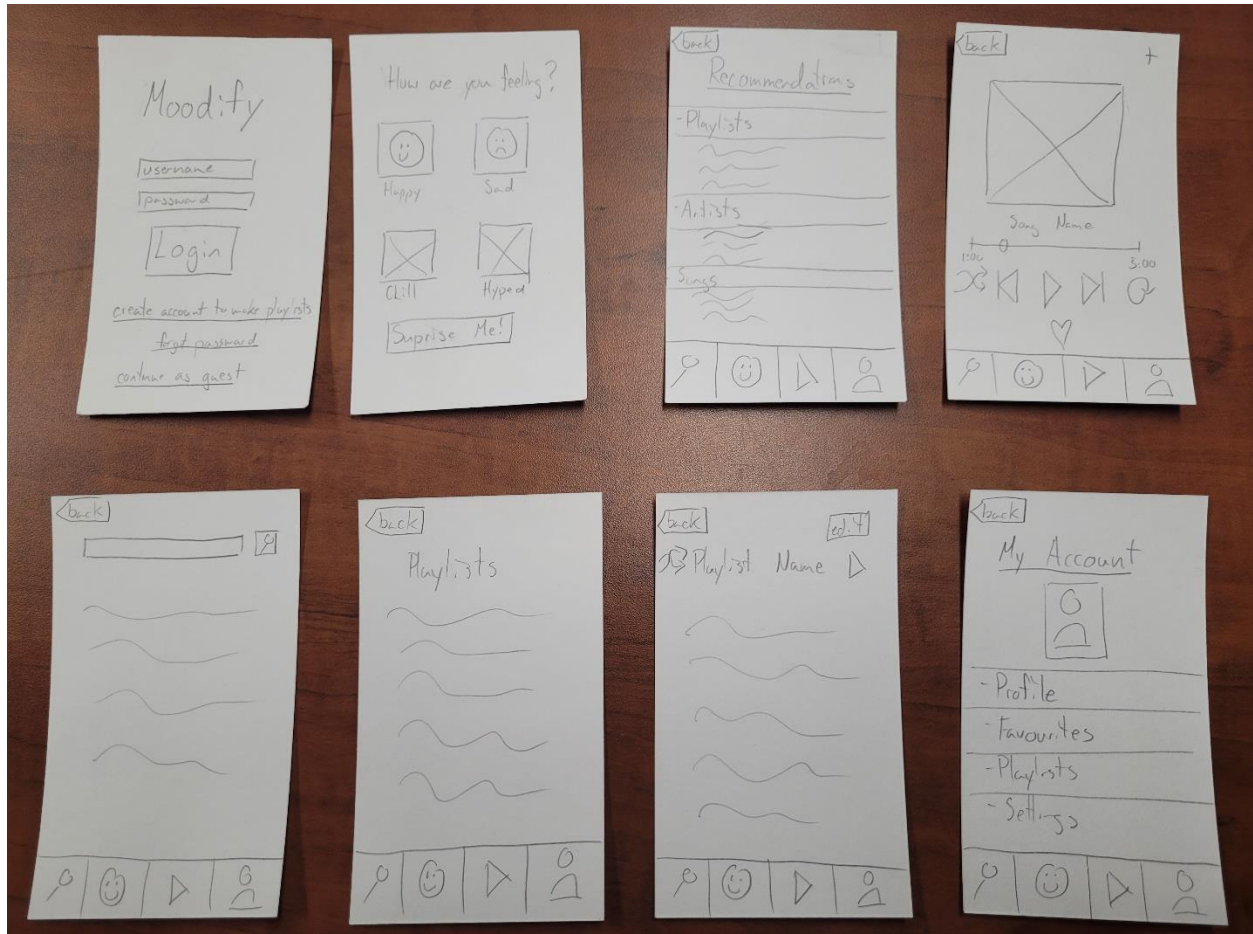Ryan Edward John Driver
Course: 3916-001
Instructor: Jeannette Bautista

3.
Paper Prototype

4.
Quick-and-Dirty Evaluation

Asked the participants to interact with the prototype as if it were a smartphone.

- They thought that the flow of the app made sense, the progression through the screens was logical
- Participants had some trouble deciphering what some of the icons meant, mainly those in the menu bar, but this may have been due to poor drawings and not the icons themselves
- Some screens required a bit of explanation, since designs were rough at this point so function was not always immediately apparent
- Overall, they thought the app/prototype was good and they could see how it could translate into a more defined music app in future iterations

5.
Paper Prototyping and Quick Evaluation Summary

We designed our paper prototype as a group based on the sketches we made during our brainstorming session. We found commonalities between our ideas and picked out ideas that we decided worked the best for the direction we wanted to take the design.

The paper prototype was presented to the user initially by handing it to them and asking what their first impression was of the design. The participants were then told to interact with the prototype as if it were an actual smartphone. When the participant 'pressed' a button they were then shown a different index card corresponding to the screen that would be navigated to. If needed the design was clarified to the user if they had questions about the function of a screen or button.

From the quick and dirty evaluation, we obtained feedback on whether or not our design made sense to users instead of just our design team. Overall, the participants liked the design of the prototype and could see how it could translate into a functioning application. The only issues that participants had with the design was some confusion over what different icons represented, however this was due to the fact that the prototype was drawn by hand so the icons weren't as clear as they could be. No major issues were identified during the quick and dirty evaluation. No design changes will be made based on the feedback, although we will be sure to make our icons clear in future iterations.
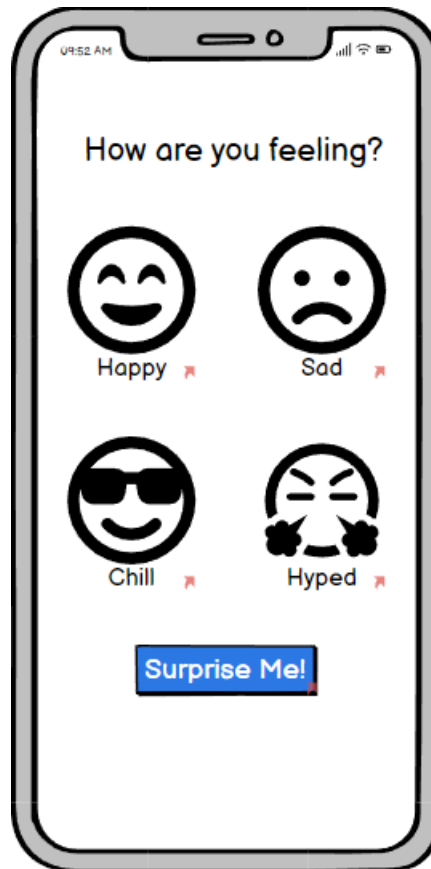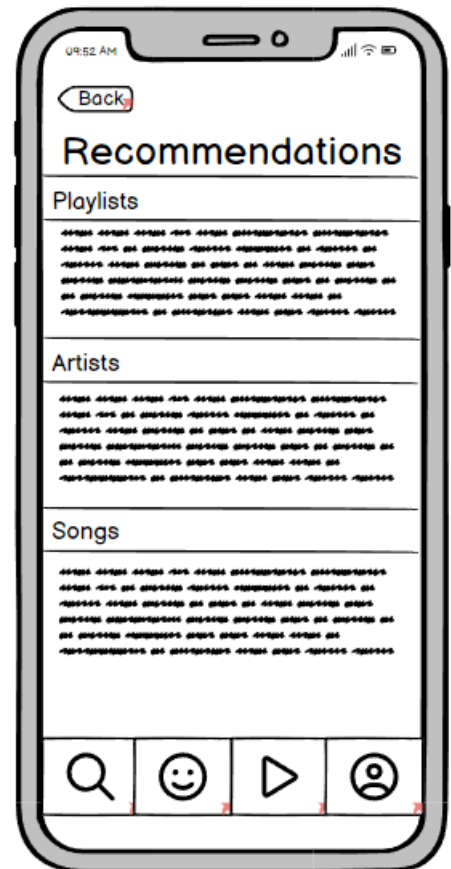
6.

Digital Prototype

Login Screen   Mood Screen   Reconmmendations Screen

List of Playlist Screen

09:52 AM

Back

Playlist

+

Playlist 1 >

Playlist 2 >

Playlist 3 >

Playlist 4 >
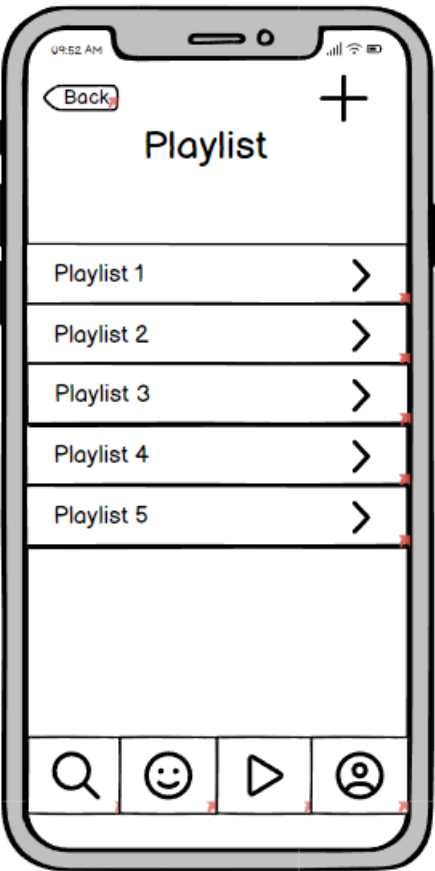
Playlist 5 >

Playlist Content Screen

09:52 AM

Back

Playlist Name

Song one

Song two

Song three

Song four

Song five

Song six

Song seven

Song eight

Music Player Screen

09:52 AM

Back

+

Album cover

Song Name
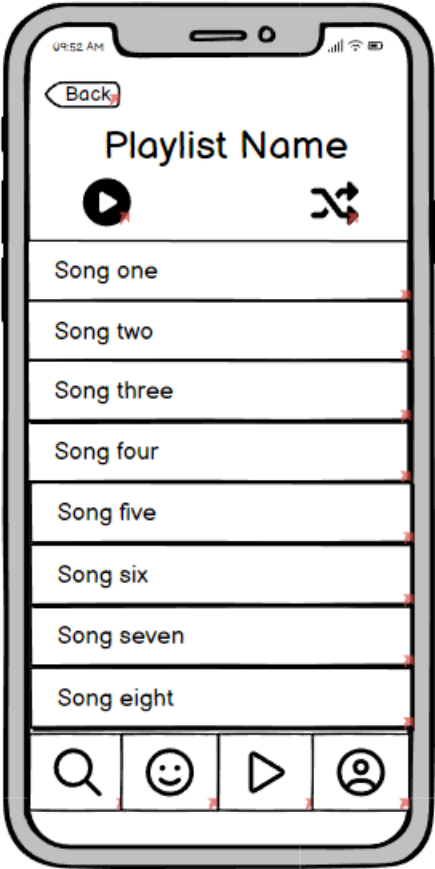
Search Screen

MyAccount Screen

09:52 AM

Back

🔍 search

Result one

Result two

Result three

Result four

Result five

Result six

🔍 ☺ ▷ 👤

09:52 AM

Log out

MyAccount

Name

- Profile

- Favorites

- Playlists

- Settings

🔍 ☺ ▷ 👤
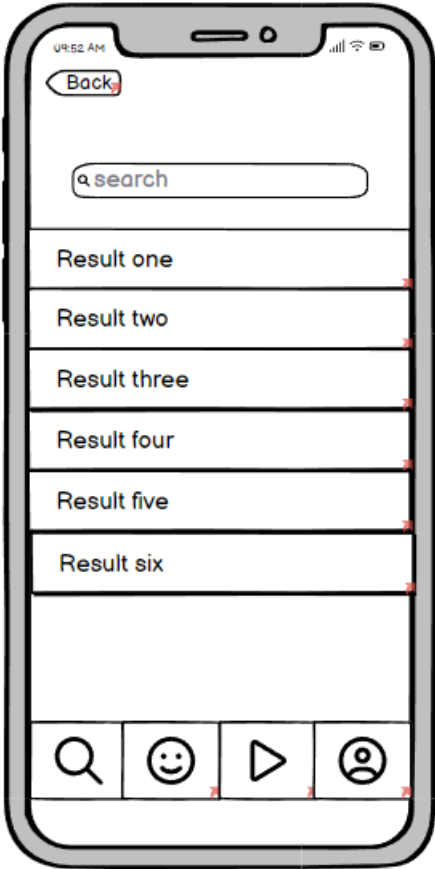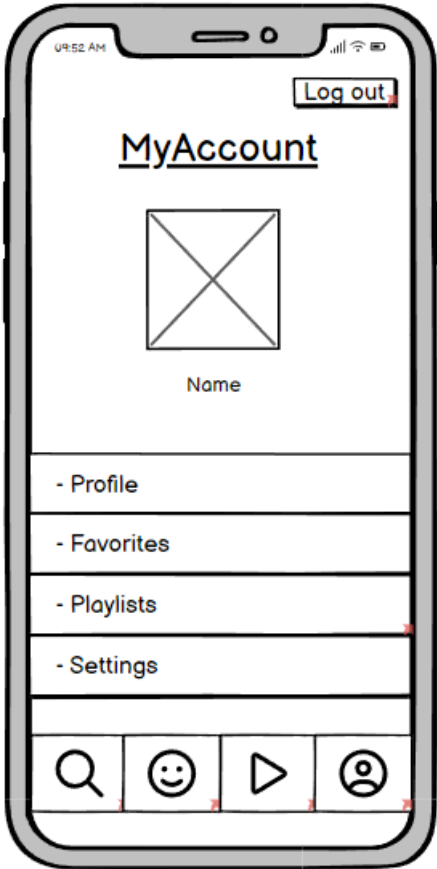
7.

Visibility of system status	Rating
Can't see music playing in background	3
Favourites status in music player	2
scroll bar	3
Shuffle and repeat unclear on playlists	2
add more colour	1
selected mood on recommendations	2
sepration of recommended playist and personal playlist	3
Consistency and standards	
< on list of playlists not elsewhere	2
My account has inconsistent title	2
Add menu bar to mood screen	3
Add pictures of album art throughout	2
Flexibility and efficiency to use	
Add edit function to playlist	4
took to long to get to music player	3
Add a home/base screen	3
Change destination after login	3
Too few moods	2
Help users with errors	
error message for no search result found	1
add music cannot be played error	2
message for new playlist and edit playlist	2
Aesthetic and minimalist design	
pictures in recommendations	3
more icons	1

Emoji Border ⎫ Moods.
Emoji Text ⎭

Overall Theme for the app (like the background)

Album Cover or better way of listing things: ⎫ Recommendation.
Buttons instead of Text.   ⎭

Add alternating colour or Bars of Colour ⎬ List of Playlist

" "   " ⎬ Search.

10 Heuristics.
Visibility of system sys status.
Consistency & standards.
Efficient to use & Flexibility.
Help users with errors.
Aesthetic & minimalist design.

Visibility: big font   * Separate Recon and apply
           big button (good size) An clear   list
           good learnability, memory
           * Add more color   * Previous Mood on Recommendations.

Consistency: Stay common sequence.
            Consistent format
            Text size common
            Right linking

Help user error: Back button for undo
            * My Account Screen can be direct to another screen.
            forget password help recover password
            button bar.

Flexibility * it took too long to play music. 1st ___b
            * Search to save time   1st 2 Resmb
            * Log → Account   F 3 s
            * Base Screen   2nd 2 Lauren
            Stay Straight forward   3rd 2 Ryan
            Button bar help guide user.

Aesthetic: Not to much info   7 V   H. 3
          Not crowded   S C
          button clearly outline   F 6
          Symmetrical layout   A 2

V. * Can use play on background * favorite in Music player
   * Scroll bar for Recon   * shuffle and repeat in playli

C * > on Load playlist All or more * Missing change more
  * My Account   actpic
    Hype icon   * Add edit to playlist
                 * Add Menu bar to Mood screen

F * too for moods
    different option, repeat, shuffle, edit, search
  * Scroll bar for song and playlist

A * picture in Place, * More icon in music

H: * No result found * Music current in play
                      * New playlist and edit

8.
1. Add menu bar to the moods screen

It can be a problem for the user because for our app we followed a consistent design style for every screen wherein every screen had a menu bar, moods screen was the only screen without it. The reason why I feel menu bar would help is because the user is expected not expected to choose from the 4 moods, instead if he has the menu bar, he can access his account or maybe search music on his own or go the music player.

2. Pictures in recommendation

It can be a problem for the user because sometimes seeing music or artists or playlist in text form cannot be as pleasing when compared to pictures/symbols. The pictures would not only be pleasing when seen but will also enhance the memorability> the user is more satisfied when he sees the pictures instead of the text.

3. Separation of recommended playlists and personal playlists

Currently our design has only one playlist screen. This was identified as a visibility of system status issue. When the user is on the playlist screen it is unclear whether they are viewing a playlist recommended by the application or a playlist that they created. This issue created the problem that the user cannot perceive the current state of the system while on the playlist screen. This issue will be fixed in future design iterations by creating two separate screens one for recommended playlists and one for user playlists.

4. Add edit function to playlist screen

On the playlist screen there is currently no button or icon that the user can use to edit their playlists. This violates the flexibility and efficiency of use heuristic since it reduces the amount that the user can customize the system to meet their own needs. If the user cannot edit playlists they are limited to the amount they can personalize their experience on our application. This issue will be fixed in future design iterations by added a button or icon that the user can use to edit playlists.

5. Took too long to get to music player, add a home/base screen, change destination after login

From the login screen, it takes 5 clicks for the user to play music. We could add a way to let user bypass mood screen and recommendation screen and select their personal playlist or songs. We could add a button to goes to user's list of playlists or music library. Another way is to change the direction after log in, instead of going to mood screen, the user will be taken to a Home/Base screen and from there they can goes where they want. On the Home/Base screen, we could show previous listening songs, continue listen to song before closing the app, and other personal saved info. The Home/Base screen should only be available to user with log in account and not for guest.
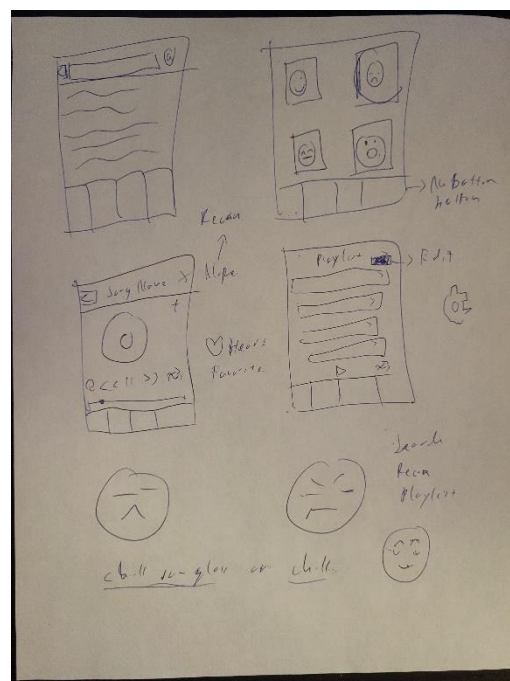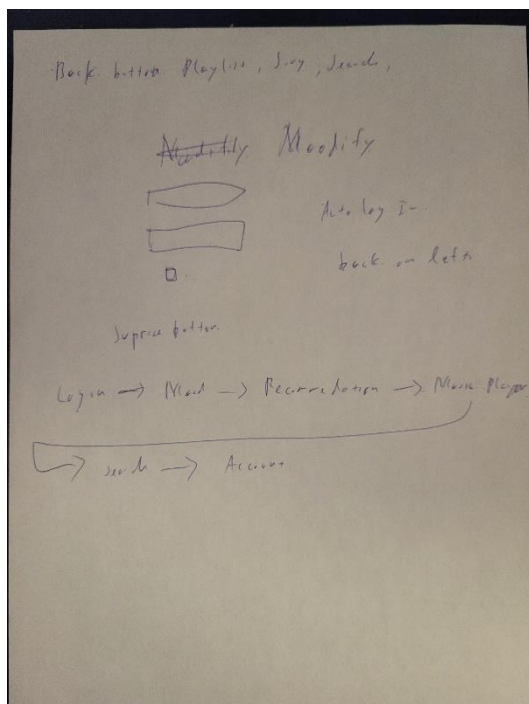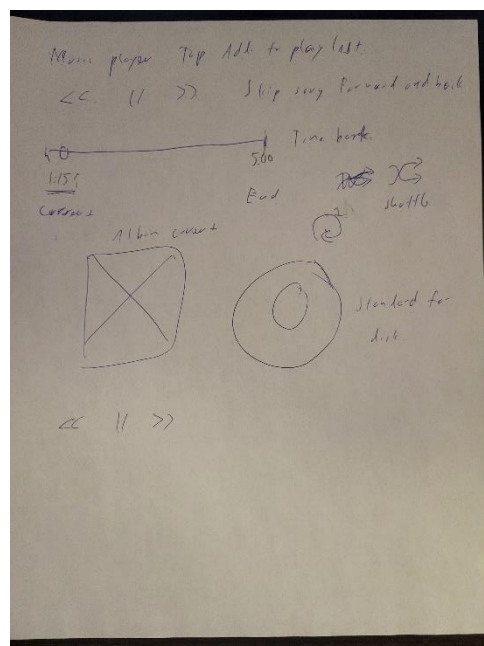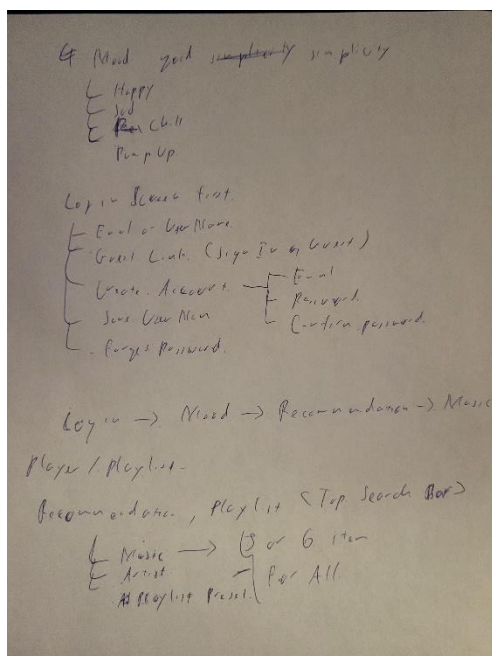
6. Cannot see music playing in background

There is no way to visually know if the music player is playing music or not add there is no way to change song or stop and start music while away from the music player screen. We can fix this by simply adding some sort of UI element that would overlay on every other screen giving users the ability to pause play music and quickly go to the music player screen.

7. No scroll bars

Having no scroll bars limits the number of things that can be viewed at one time in any lists. To fix this we can add scroll bars to areas where we need to have to option to display more things then that can fit on one screen at a time.

Appendix

[1] Brainstorm notes images

Pick mood

Mood | Logout

Recommended

Song

mood #1

Song

mood #2

Song

mood #3

Playlist   Account → Playlist

2 copy.

Accou Create Account for Playlist button

Playlist < → Song xxx   ℂ >

Search

Search   Search button [Recommendation
                                Playlist

Ned   [Browse]   My Music   Account   4 button
       Search   button

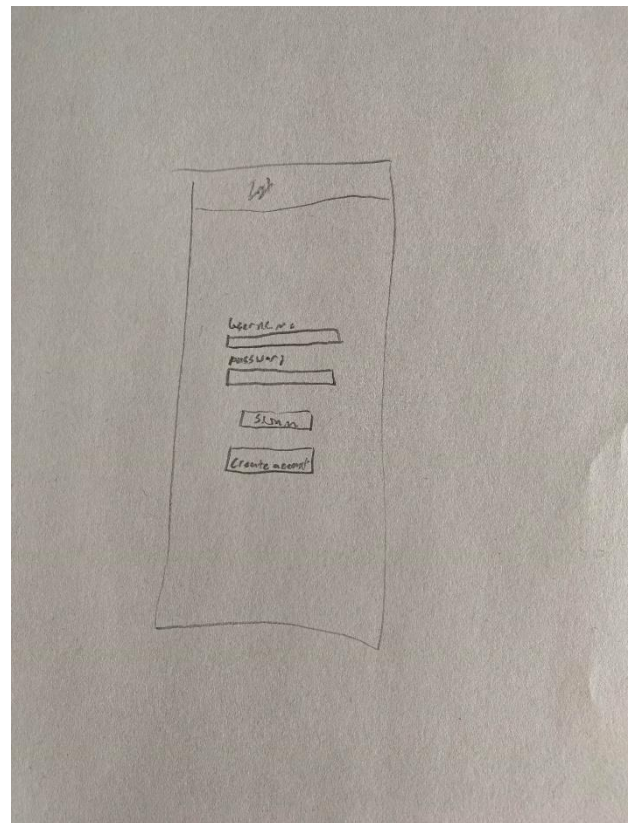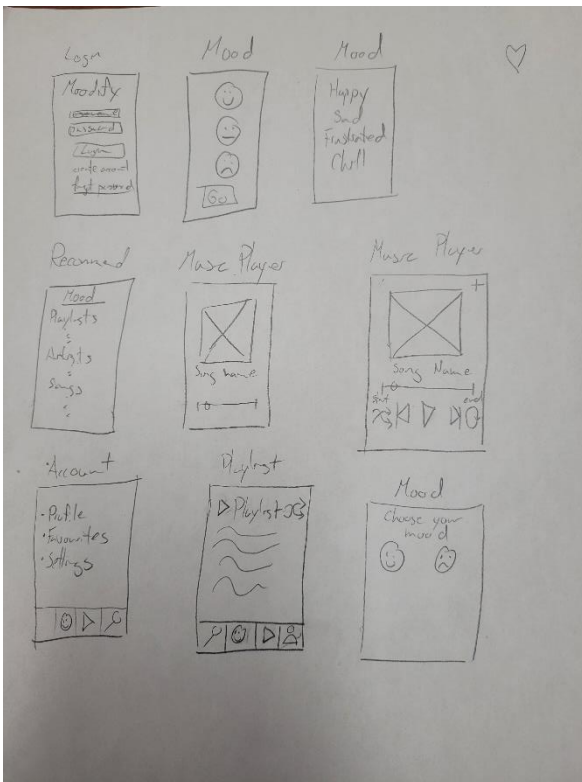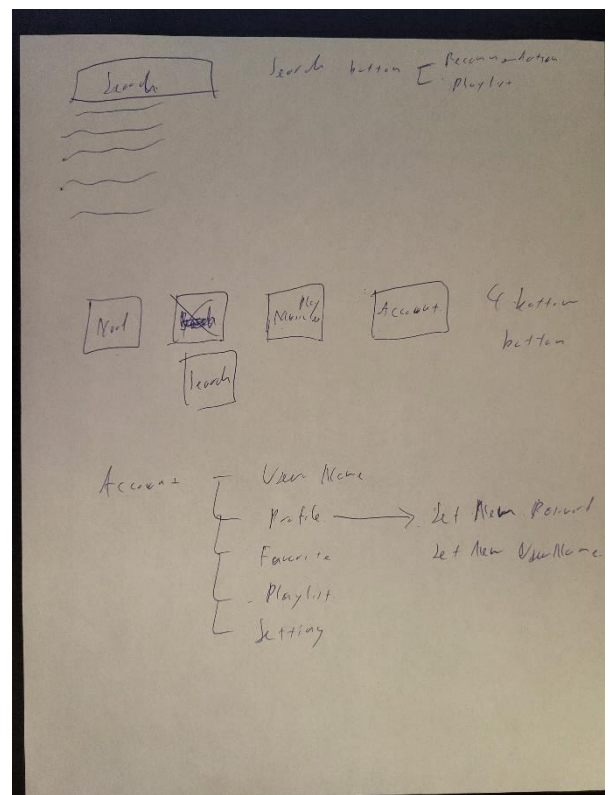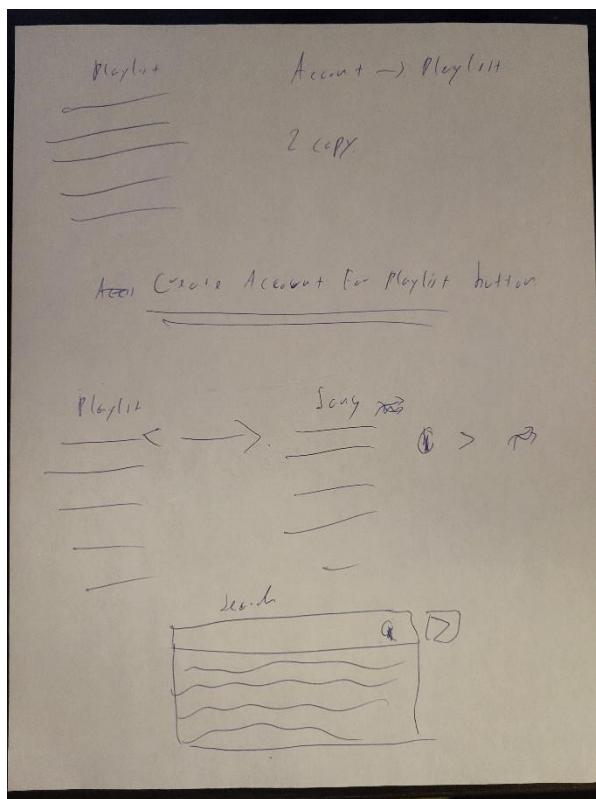Account ⌐ User Name
        ⌐ Profile → Set New Password
        ⌐ Favorite   Set New User Name
        ⌐ Playlist
        ⌐ Setting

Login   Mood   Mood
Moodify   ☺   Happy
                        Sad
[Password]   ☺   Frustrated
[Login]   Chill
create accord
forget password

Recommed   Music Player   Music Player
Mood
Playlists   ⊠   ⊠   +
  :   Song Name
Artists   Song Name
  : |o| ⤭ ◁◁ ▷ ▷◁▷
Songs
  :

Account   Playlist   Mood
-Profile   ▷ Playlist xxx Choose your
-Favourites   mood
-Settings   ☺   ☹
[o ▷ o]   [o o ▷ o]

Login

Username

Password

Sign in

Create account

[2] Individual HE evaluations

Vi's HE evaluation

Visibility of system status:

- Big font
- Need more color for button
- Bottom buttons need some kind of feedback
- Animation for running music in background
- Missing let user know what music is running in background
- Missing let user know song on repeat and shuffle
- Missing clear separation between personal music and recommendation
- Not clear limit on recommendation screen
- Missing let user know which song is added to favorite in music player

Consistency and standards:

- Consistent smaller font and title font
- Back button is constant across screen that have it
- Button button is always at the bottom
- The central screen is Recommendation
- Tittle for MyAccount is different style than other

Flexibility and efficiency of use:

- Need too many buttons click to directly listen to music
- Search is easy to get to
- Missing customization of playlist song order
- Missing create temp playlist
- Missing change user name and profile picture
- Missing scroll bar for playlist
- Missing search history and sort by in playlist and search.

Help users recognize, diagnose, recover from errors

- Should be error message for no search result found
- Error message for music cannot be play
- Message for creating new playlist
- Message for save edit of playlist

Aesthetic and minimalist design

- Not many elements in screen
- Each function is connected logically (Playlist and Music player)
- 8 songs or item is a good amount for each screen
- Symmetrical layout

- Need picture on recommendation screen
- Could add icon to look more pleasing

Laura's HE evaluation

Login Screen
- Visibility and system status
  - Login button is nicely visible, colour makes it stand out
  - Links for other features are available but not overly prominent
- Consistency and standards
  - Layout looks similar to other login screens
- Efficient to use and flexibility
  - No issues here
- Help users with errors
  - Forgot password function is available
- Aesthetic and minimalist design
  - Not overly crowded with text or icons

Moods Screen
- Visibility and system status
  - Different icons are easily visible and eye-catching
- Consistency and standards
  - Emojis are for the most part consistent with their meanings
  - The hyped one could also mean angry, which could cause some confusion
- Efficient to use and flexibility
  - The surprise me button adds flexibility if the user doesn't like any of the options
  - Having only four options is a bit limiting
- Help users with errors
  - Aren't really any errors to be made on this screen
- Aesthetic and minimalist design
  - Good simple design with clear emojis and text

Recommendations
- Visibility and system status
  - System status is visible in that the user can see recommendations based on their previous selection in the mood screen
  - The mood that was previously selected is not visible on this screen
- Consistency and standards
  - Menu icons at the bottom are consistent with user expectations

- Efficient to use and flexibility
  - Flexibility is available in that users can choose from playlists, artists, or songs
- Help users with errors
  - There is a back button available to go back and select a different mood
- Aesthetic and minimalist design
  - A bit crowded with placeholder text
  - Could use images of album covers instead

List of Playlist
- Visibility and system status
  - The plus button is very large, maybe too large
  - Is this a list of recommended playlists or user created playlists, unclear
    - Maybe title it 'My Playlists' or 'Recommended Playlists'
- Consistency and standards
  - The arrows on the buttons are not present on other screens, either put them all screens or take them off this one
- Efficient to use and flexibility
  - No issues here
- Help users with errors
  - Back button is provided
- Aesthetic and minimalist design
  - Very minimalist, maybe too much
  - Could add pictures to identify playlists

Playlist Content
- Visibility and system status
  - Different functions are easily visible
- Consistency and standards
  - Buttons are consistent with user expectations
- Efficient to use and flexibility
  - Flexibility is there in that the user can shuffle if they want to
- Help users with errors
  - Lack of edit playlist option
  - Back button is provided
- Aesthetic and minimalist design
  - Good simple design with clear icons

Search
- Visibility and system status
  - Results of search are easily visible
- Consistency and standards
  - Menu icons are consistent

- o   No issues specific to this screen
- Efficient to use and flexibility
  - o   This screen is easily accessible from the menu bar
  - o   Including the search function adds flexibility to the overall app
- Help users with errors
  - o   Back button is provided
- Aesthetic and minimalist design
  - o   Simple design
  - o   Maybe add pictures for search results

Music Player
- Visibility and system status
  - o   Can easily see what song is playing and where in the song the user is located
  - o   Required icons are visible
  - o   Maybe a bit crowded overall
    - ▪   Could remove the menu bar
  - o   If song is playing in background while on other screens this is not visible
- Consistency and standards
  - o   Music player buttons are consistent with other music players
- Efficient to use and flexibility
  - o   The user is given flexibility in how they play their music
    - ▪   Shuffle, repeat, favourite
- Help users with errors
  - o   Back button is provided
  - o   Menu allows users to navigate away from player
- Aesthetic and minimalist design
  - o   A bit crowded

My Account
- Visibility and system status
  - o   Different functions are easily visible
- Consistency and standards
  - o   Looks similar to account screens on other apps
- Efficient to use and flexibility
  - o   Settings option allow the user to customize their experience
  - o   Favourites option allows customizability
- Help users with errors
  - o   Favourites and playlists may cause some confusion, they are a bit similar
- Aesthetic and minimalist design
  - o   Design is clean and simple

Purab's HE evaluation

Visibility of system status
- The screens have a good font size
- Buttons are good in size which makes the information clear.
- User gets an idea and knows what is to be done looking at the app
- Attractive colour is needed for grabbing the users attention and making it more interesting for the user.
- Simple design

Consistency and standards
- Proper sequence is followed for all the screens
- Screens follow a similar style for all the buttons
- Text size is common
- It makes it easier for the user to learn and memorize the information
- Linking of the screens is done correctly

Help user with errors
- Errors can be easily corrected with the help of the back button
- My Account screen can pose problems for the user where the user is directed to another page instead of the desired screen
- Forgot password can help recover information

Flexibility and efficiency to use
- User response of 5 screens is required to actually play the song
- User response of 2 screens is required to search the song
- Less time required by the achieve a desired outcome
- Pretty straightforward
- Saves time of the user

Aesthetic and minimalist design
- No too much information
- Not crowded
- Buttons are equally outlined in the desired location/place
- Equal spacing between the functions and the buttons
- Button bar helps the user get directed to a specific page

Self report

Name: Vi Le

Contribution:

- Organize meeting
- Help brainstorming paper prototype
- Draw several rough drafts
- Design 2 digital prototype screen (List of Playlist, MyAccount)
- Assemble digital prototypes into a single prototype
- Add link in buttons in digital prototype
- Help select set of heuristics
- Do HE
- Compile Milestone 2 word file

Self report
Name: Purab Budhwani
Contribution:

- Help in brainstorming ideas about the app
- Discussing about wireframe designs and developing the paper prototype
- Made a series of sketches for finalizing the wireframe design that the app will have.
- Help select 5 usability heuristics
- Designed two digital protype screen which are (Login Screen, Moods Screen)
- Design 2 digital pro
- Assemble digital prototypes into a single prototype
- Add link in buttons in digital prototype
- Help select set of heuristics
- Do HE
- Compile Milestone 2 word files

Self report
Name: Laura Didyk
- Participated in group brainstorming and sketching session
- Drew the paper prototype with input from other group members
- Carried out the quick and dirty evaluation with 2 participants
- Wrote summary of paper prototyping and quick and dirty evaluation
- Created 2 wireframes one for the Recommendations screen and one for Music Player screen
- Helped to assemble screens into a single prototype
- Helped to link screens of digital prototype
- Helped select which heuristics to use
- Carried out a heuristic evaluation
- Helped to compile and summarize results of heuristic evaluations

Ryan Driver 3090389   self-repost milestone 2

- Drew paper prototypes for pages of our app
- worked on frameworks for two pages for our app.
- Contributed in group discussion.