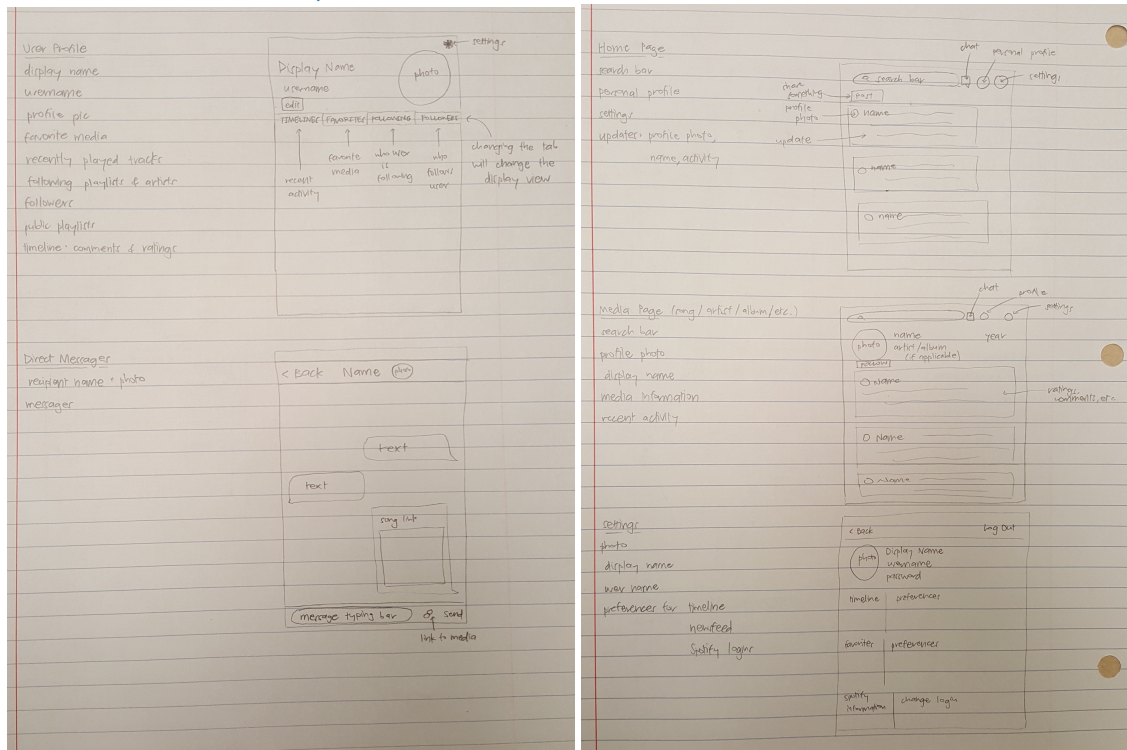


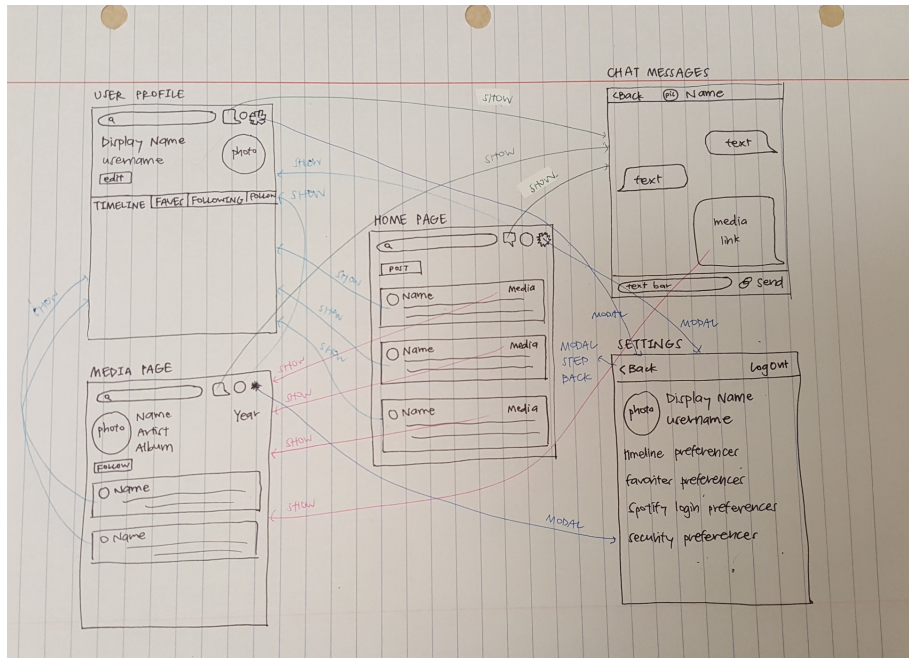
Description

This project endeavors to create a sort of cross between a musical Facebook and a musical Slack. In other words, this app is a network for friends to digitally socialize about their music. Users can follow other users by searching Spotify usernames, write posts on timelines, and send direct messages. Each user's profile will display their favorite media (songs, artists, albums, etc.), public playlists, playlists and artists they're following, followers, and recently played tracks. There will also be an ability to comment and rate various pieces of media through a 5-star system. Searching for a piece of media will launch a screen that displays comments and ratings from either the general public or just friends, depending on user preferences. A newsfeed on the home screen will collate all recent updates from a user's network.

This app is intended to be a sort of integration with Spotify. A proper overlay of these social networking features on the Spotify app is outside the scope of this project, so these features will instead be generated as a stand-alone app. However, because this app is ultimately intended to be integrated with existing music streaming services, this project will not support the ability to actually play audio.

Screens + Functionality





Primary Data + Sources

- Retrieved from Spotify:
 - Username search functionality
 - User's public playlists
 - Playlists and artists user is following
 - Who follows user
 - User's recently played tracks
 - Media metadata (e.g. song release date, artist, album, year; artist releases; album contents, artist, year; etc.)
- Retrieved from Chat API:
 - Direct messages
- User Input Stored in Firebase:
 - Timeline posts
 - User's favorite media (songs, artists, albums, genres, etc.)
 - User's comments on media
 - User's ratings on media
 - User preferences

Model Class Descriptions

User:

Spotify User ID
 Favorite Media
 Profile Picture
 Display Name
 Username

Post:

Rating (if applicable)

Comment (if applicable)

Media Key: the associated profile/song/artist/etc. this update belongs to

iOS APIs

None

External APIs and Data Sources

- Spotify: Almost all the metadata about the music and user will be retrieved from the Spotify API, with the exception of the user's favorite media, which they will specify in the app. That is to say, the Spotify API will be used to retrieve a user's public playlist, playlist and artist following, followers, and recently played tracks information.
- Sendbird / Firebase Cloud Messaging: I'm still working out which product is ideal for this project, since there seem to be some differences between functionalities and pricing. Regardless of which tool is utilized, this API will enable messaging between users, in both one-on-one and group settings. Users can send plain text messages or formatted links to songs, artists, albums, etc.
- Firebase: All information not tracked in the Spotify and chat APIs will be stored in Firebase. Personal user profile information beyond Spotify's data such as favorite songs, artists, albums, genres, etc., timeline posts, user profile personal information, comments and ratings on songs, artists, albums, etc. will be stored here.