

Project Title: TerpTune

Team Members

Canvas Project Group 21

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General Description of the App

We are designing an app that is similar to Letterboxd but for music. Users can like songs/albums they enjoy, rate them, and review them. They can share these preferences with other users, creating social interactions through reviews, ratings and perhaps a fully fledged friendship system.

Minimal Goals

The app will contain lists of songs and albums. This list will likely come from a **Spotify API**.

The interface will allow users to:

- Like/favorite songs and albums
- Give a rating (0-5 stars) of songs and albums
- Give a detailed review of songs and albums
- View top rated songs on app
- Cultivate a personal profile full of reviews, likes and ratings history

Additional minimal goal, for fun and to accommodate project requirements

Shake-or-break (invisible feature)

- Ability to spontaneously shake the phone while within an app from any page, which will recommend you a song then and there based on less serious current factors like weather, time of day, etc. This is for fun and to experiment with flutters capabilities with interacting with hardware

Stretch Goals

We will attempt to build a recommendation feature. This feature would have to collect user data in order to find specific patterns in a user's listening. Then recommend new music to users.

We want our app to potentially be a new social media platform designed specifically for music lovers, not just a vast music database! For stretch goals we will include a friendship/followers system, similar to the ones used in Facebook/Instagram. This way users can have the ability to add new friends and see what their friends are currently listening to, what songs they've reviewed, as well as their current recommendations.

As of right now, our app will most likely work using the Spotify API. However, this can limit the size of our music library. As a stretch we want to include all music that has been released on all other platforms. Spotify is a great platform however, sites like SoundCloud and Apple Music have unreleased tracks, dj mixes, live performance recordings, and tracks made from more underground artists that Spotify may not have; because of its strict copyright rules.

Final stretch goal is a dynamic lyric display.

Project Timeline

Milestone 1

- Semi functional, branded UI (color scheme tbd)
 - Bottom navbar with three tabs (bottom ~20% of screen)
 - Top ~80% of screen is for tab's associated content
- Most UI components in place, although probably not connected to database/spotify API quite yet
 - Includes 'Explore Tab' - browse music with simple thumbnails
 - Scrollable list (filler list items for now)
 - ATTEMPT to link spotify API
 - Includes 'Top Songs Tab' - list app's most popular content based on ratings
 - Includes 'Profile Tab' - shows users profile info and their ratings/likes/reviews history
 - Will need to be integrated using basic registration system
 - This can be done using a free tier of a cloud based database like Firebase or MongoDB (same database where other records will live such as songs, reviews, etc)
- Front end based milestone
- No friends system
- No shake or break system

Milestone 2

- Back end functionality based milestone
- Integrate spotify API to give app a library of at least 100 of the most popular songs
- Improved UI experience with clear 'brand'
- Basic registration/log-in system upon app open
- Explore tab
 - now scrolls through app's library of music, with album covers, artist names, and other basic information in the preview within list
 - Once clicked, open songs associated page, which displays
 - (button) If not yet rated, option to rate (will be 5 empty stars listed horizontally, select a rating by clicking on any interval of 0.1 stars)
 - (button) If not yet reviewed, option to review
 - Previous reviews
 - Current app rating
- Top Songs tab
 - Now lists the top 5-10% of songs based on ratings system (0-5 star scale)
 - Among most simple features, but culminates in a page where people will likely find most value
- Profile tab
 - Now accurately reflects users registration
 - If signed in, display profile information like name, profile pic towards the top in a distinct box for personal info
 - Below, liked songs, previous ratings and reviews will be listed and accessible to the user as a sort of archive of their app history
 - If not signed in, they will be prompted to register or sign in

Milestone 3

- Perfect and extensively test minimal goals
- Polished UI with seamless UX
- Shake or break feature implemented
 - This is time to play with this feature and decide if we have time to make it more of a core feature or keep it as is
- Begin working on stretch goals
 - Ability to add friends and navigate to their profiles
 - Expand library to not only include songs from Spotify API, but a much larger selection of content and perhaps even podcasts
 - Implement a recommendation feature that is separate from *shake or break*'s spontaneous nature. This is based off of your preferences (perhaps your friends preferences) and what is popular amongst the app's library

- Perhaps a dynamic lyric display, although we likely won't be able to play any music from the speakers of the phone