

## Team 24 Project Charter

### Pineapple Music

#### **Team Members:**

Samuel Tarr, Alan Zeng, Kichul Kang, Thomas Wiegand, Tiger Lee, Jason Paik

#### **Problem Statement:**

With the rise in subscription-based business models in the modern world, consumers are finding it increasingly difficult to get all of their needs in one place. Although our group does not have the scope to alleviate issues in every field, we know we can make a difference in one that matters to us most: music. Since there are many different music tastes and a vast number of existing tracks, we've decided to combine two of the largest music streaming platforms into one for streamlined music access. The web app will also contain other quality of life features, such as group listening sessions and bookmarkable skips for parts of songs you don't wish to hear. We also plan on implementing an aesthetically appealing music visualizer.

#### **Project Objectives:**

- Build a website with an integrated dual player system, allowing groups to connect their music tastes with songs from both the SoundCloud and Spotify music services.
- Allow multiple client connections to the same listening session, giving users the freedom to listen, interact, and react to music together.
- Connect playlist creation to emotion selection, allowing groups to quickly find music matching the mood of the party.
- Customize songs through saveable bookmarks, storing disliked parts of songs to auto-skip while playing.
- Display music with stunning visuals that change with the beat, volume, and mood of the current song in real time.

#### **Stakeholders:**

Users: People who want to combine the Spotify and Soundcloud listening experiences with additional features that make our product unique.

Developers: Samuel Tarr, Alan Zeng, Kichul Kang, Thomas Wiegand, Tiger Lee, Jason Paik

Project Manager: Yu Shi

Project Owners: Samuel Tarr, Alan Zeng, Kichul Kang, Thomas Wiegand, Tiger Lee, Jason Paik

#### **Deliverables:**

- A React JS based front end web application for music streaming.
- A Node JS and MongoDB backend to serve clients and manage data.
- A dual music system to play tracks from both the Spotify and SoundCloud music services.

- A cooperative listening service to share the music listening experience. Group listening functionality involving playlist creation, live intractability, and simultaneous reactions.
- A real time music visualizer that responds promptly to the beat, frequency, mood, and volume of the music.