

CS 30700: Product Backlog

Team 24

MelodyMunk

Matt Twardowski, Brooks Van Buren, Elizabeth Stallter, Tristan Pickett, Shrikar Peri, Avnish Bablani

Problem Statement

Catering to the musical tastes of everyone at a social gathering can oftentimes be difficult. MelodyMunk, our webapp, strives to provide everyone the opportunity to share what they want to listen to. The primary feature is a live playlist offering dynamic changes that others can contribute to. It will increase the audience's connection to the music being played as everyone has a say in the process. This also gives the host extra confidence in knowing that the guests are satisfied.

Background Information

Right now it is hard for people at social gatherings to all get a say at what music will be played. Usually one person dominates the party and chooses everything that will be played. Our product will allow all the people at the gathering decide what music will be played. There are a few competitors that are doing similar things to what this project is trying to accomplish. One of these is Spotify collaborative playlists. This is however limited to just adding and removing songs and doesn't include any of our other features. Another similar product is Jukestar, but that also doesn't offer all the features we are offering, Jukestar has a similar voting system to the one we are going to implement, however it doesn't allow the party host to have as many options to control the party with.

Requirements (Backlog)

Functional

- As a party host
 - I would like to play songs my guests like
 - I would like the option to restrict songs to non-explicit versions
 - I would like the option to restrict songs to certain genres, artists, or Youtube channels (e.g. VEVO channels)
 - I would like the option to show the video feed from the current song if there is one (youtube videos)
 - I would like to be able to log in with a Facebook account, and have preferences (accounts) for rooms saved
 - I would like to be able to restrict room access to specific users (requires accounts)
 - I would like the option to enable a text chat for the room
 - I would like to be able to restrict chat to only admins (for announcements)
 - I would like to be able to specify a list of actions guests and admins have permission to take
 - I would like a constant flow of music

- I would like to set a suggested genre of music to be played (classical, pop, kids, dance, etc.)
- I would like to be able to easily share a link to join a created room (QR code, URL)
- I would like the option to display a visualizer for the currently playing music
- I would like for songs to autoplay if the playlist is empty
- I would like to make users into admins
- I would like to notify people that I have started a party via Facebook, Twitter etc
- I would like to set a mood for the room
- As an admin
 - I would like to be able to ban specific users from chatting
 - I would like to be able to ban specific guests from modifying the playlist or suggesting songs
 - I would like to remove undesired songs (Think... What's New Pussycat playing 21 times in a row, Rickrolls, etc.)
- As a professional DJ (all sub-bullets if time allows)
 - I would like to advertize my skills
 - I would like to share clips of my work
 - I would like to have aggregate reviews available from past performances
 - I would like live reviews to come in to gauge audience reactions
- As a general user
 - I would like to have niche music available to play (if time allows) (Use Spotify, Soundcloud, Youtube)
 - I would like to have a mobile-friendly website interface
 - I would like to be able to search for songs
 - I would like to be able to vote on songs
 - I would like to be able to write reviews on the party host or DJ
 - I would like to be able to report other party guests to the admins
- As a party guest
 - I would like to sign a guestbook to leave a note when I'm leaving the party (if time allows)
 - I would like to suggest songs
 - I would like to join a room quickly and easily (QR code or URL)
 - I would like my song to be played in a reasonable amount of time
 - I would like suggestions for songs that I may be interested in adding
 - I would like to be alerted when my song is going to be played next (If time allows)

Non-Functional

- Connection to Spotify music streaming service
- Expand to connecting with Soundcloud or Vevo Youtube (if time allows)
- Run smoothly without delay from the website in accordance to limitations set by 4g cell service
- Secure user profiles and user data
- Banning specific users from rooms can utilize IP bans or website profile bans
- Website must be able to handle at least 250 users at any given time
- We would like to have high quality music playing (minimum 128 kbps bitrate)

- A way to test whether or not the service is functioning properly