

Problem

Music players have limited support for local music and shareable playlists

Problems with current music players:

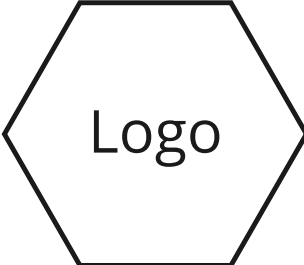
- slow
- cant handle missing songs
- requiring servers
- clunky ui
- unnecessary features
- don't support many audio formats
- Can't search by song metadata
- require subscription
- can't share local playlists
- can't edit metadata

Appetite


Main Issue is organizing local music files and making playlists shareable.

To solve the problem effectively in 6 weeks, we will focus on implementing all the must-have feature in our first sprint, followed by desired features. Stretch features are likely to be future work to implemented beyond the 6 weeks.


Besides the No-go's we also avoid relying on cloud technologies and the additional complexities that come with it (load balancing, web security, etc.)



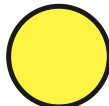
MixMatch




Search Songs Here




All Songs



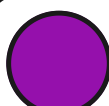
Playlists



Import/Export

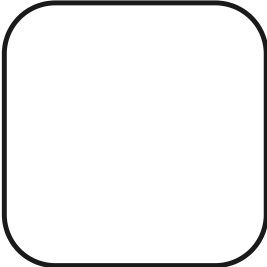



Login / Settings / etc.





Stats

Show the results
contents page









Risks/Rabbit Holes

Binaries may be OS specific, so binaries that work on iOS and mac may not work on windows

Matching metadata could be difficult

Local filesystems require different permissions and have different properties

- android requires file permissions
- linux and window use different file delimiters (/ vs \)

No Gos

No streaming music

No storing music or playlists on the cloud

No sharing actual music files

No downloading music files

No personalized recommendations

No harvesting user info (guaranteed privacy)

Must Have Solutions

- Lightweight
- Able to Skip/missing Songs / alert user
- Play from local File
- Uses supported built-in JavaScript audio types
- User-focused UI
- Metadata search/editor
- Free (GPL License)
- Can Share Playlists (playlists based an user defined meta i.e. artist + album, year, etc.)

Desired Solutions

Use local binaries (like VLC) to support vastly more audio types

Themes (Dark, light)

Lyrics through metadata raw text

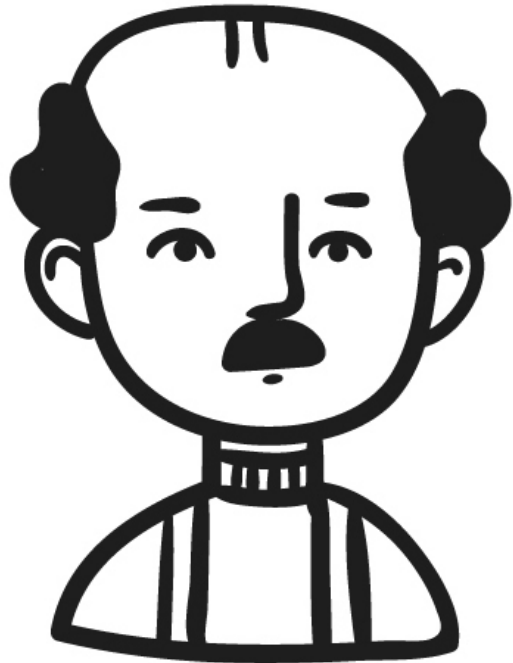
user stat's

Stretch Goals

- Export /import playlist
- Custom Themes
- Fuzzy hash
- Lyrics through subtitles

Gregory

Basic User



Brief Description

- Single
- Works on a boat 7 months out of the year

Personality

- Outgoing
- Always wants to try new things
- Doesn't like to focus on the details
- Jack of all trades - master of none

Interests

- Soccer
- Cooking
- Horror Films

Tech savviness

- Gregory uses his computer to check his email and read the news.
- Gregory can stream his music using popular services like Spotify on his phone
- Gregory knows what a file is

Use Cases

- Would like to listen to local music and audio recordings
- He can't always use Spotify because internet connection is limited on the boat.

Gains

- Can play his local music files
- Doesn't need internet connection

Pains

- Not understanding how/why to edit music files

User persona

Gregory

User story

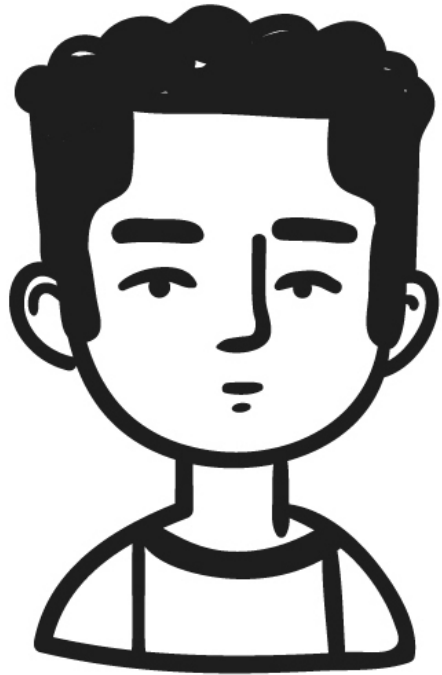
As a person who works a job with long hours at a tedious job, I want to be able to easily listen to podcasts I find and download.

As a person who is tech illiterate, I need an app that has an easy UI so I can play music without having to spend a lot of time

As a person with a lower end computer, I want to be able to use an app with that runs fast on my laptop.

As a person who wants to listen to music a lot in public but don't have data, I want to be able to use an app on my laptop to listen to music offline

Sam



Brief Description

Sam loves to listen to music from mp3 files he bought from his favorite artists. He just wishes there was a better way to share his love for the artists with others

Personality

- Loves sharing things with friends

Interests

- Soccer
- Playing music at parties

Intermediate User

Tech savviness

- Able to use multiple devices (phone, computer)
- Understands how to access local files
- Basic knowledge of information stored in mp3 or other music files

Use Cases

- Wants to listen to different albums downloaded locally
- Wants to share his playlists with friends

Gains

- Can share his local playlists with others
- Can show off how much of a fan he is

Pains

- Wants further integration with social music platforms like Spotify because he wants his tastes to be as public as possible

User persona

Sam

User story

As a person who believe that music should be accesibile I want to be able to have a fully featured music player without being charged a subscription.

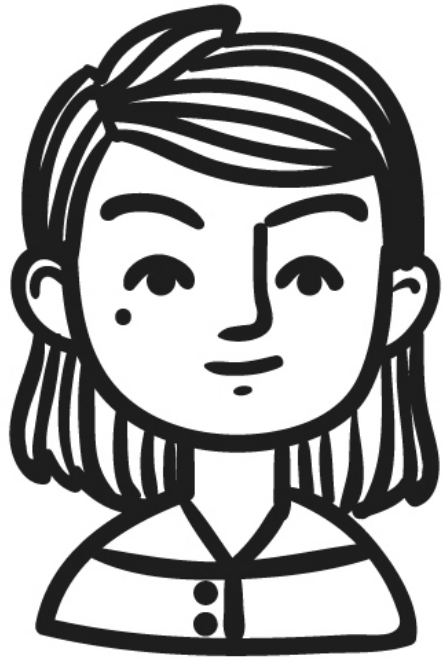
As a person who is has become very unorganized through many years of collecting music, I want to be able to search songs in sub-directories.

As a person who likes sharing things with my friends, I want to be able to share my playlists with my friends on popular platforms.

As a person who likes getting recommendations from his friends, I want to be able to import their playlists from other platforms.

Lisa

Advanced User



Brief Description

Lisa is a data hoarder of all kinds including music in many formats.

Personality

Believes in self-improvement and constantly seeks new ways to streamline her life

Interests

- Music
- Motivational Quotes
- Data Science

Tech savviness

- Is fluent in ReGeX
- Power User
- Uses all device types

Use Cases

- Organize extensive amounts of music (>30gb)
- Create playlists based on ReGeX of metadata
- Import and export from more niche sites, like SoundCloud and NicoNicoDouga

Gains

- Centralized location to both edit music files and listen to them
- Great tools to facilitate creating playlists

Pains

- Can't download music files

User persona

Lisa

User story

As a person who has downloaded music for many years, I want to be able to sort and manage a large quantity of downloaded music.

As a person who has many songs saved as artist name - song name since I couldn't edit metadata, I want to mass modify all the metadata of my songs.

As a person that who studies data analysis, I want an music player app which has my listening statistics on demand.

As a person who collects music from different sources, I want to be able to play files of various obscure types.