

P4 Design Doc

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Softdev

Period 8

Target 🚢 **Date:** Tuesday, June 6, 2023

Website Description

Site name: Crocodile Covers

- Based on a childhood cartoon character and recent film adaptation, Lyle Lyle Crocodile, a singing crocodile, Crocodile Covers utilizes Lyle as its mascot for its website.

Users Can

- Search for a song by inputting the song title and the respective artist into a search bar
- Add songs to their playlist
- Play songs and show the lyrics of songs
- Have word clouds to display the most common words of songs in that playlist

FEF

Bootstrap

- Nav bar class for navigating between playlist page and search page
- Display word cloud above playlist
- Buttons to play songs
- Accordion for song lyrics

APIs

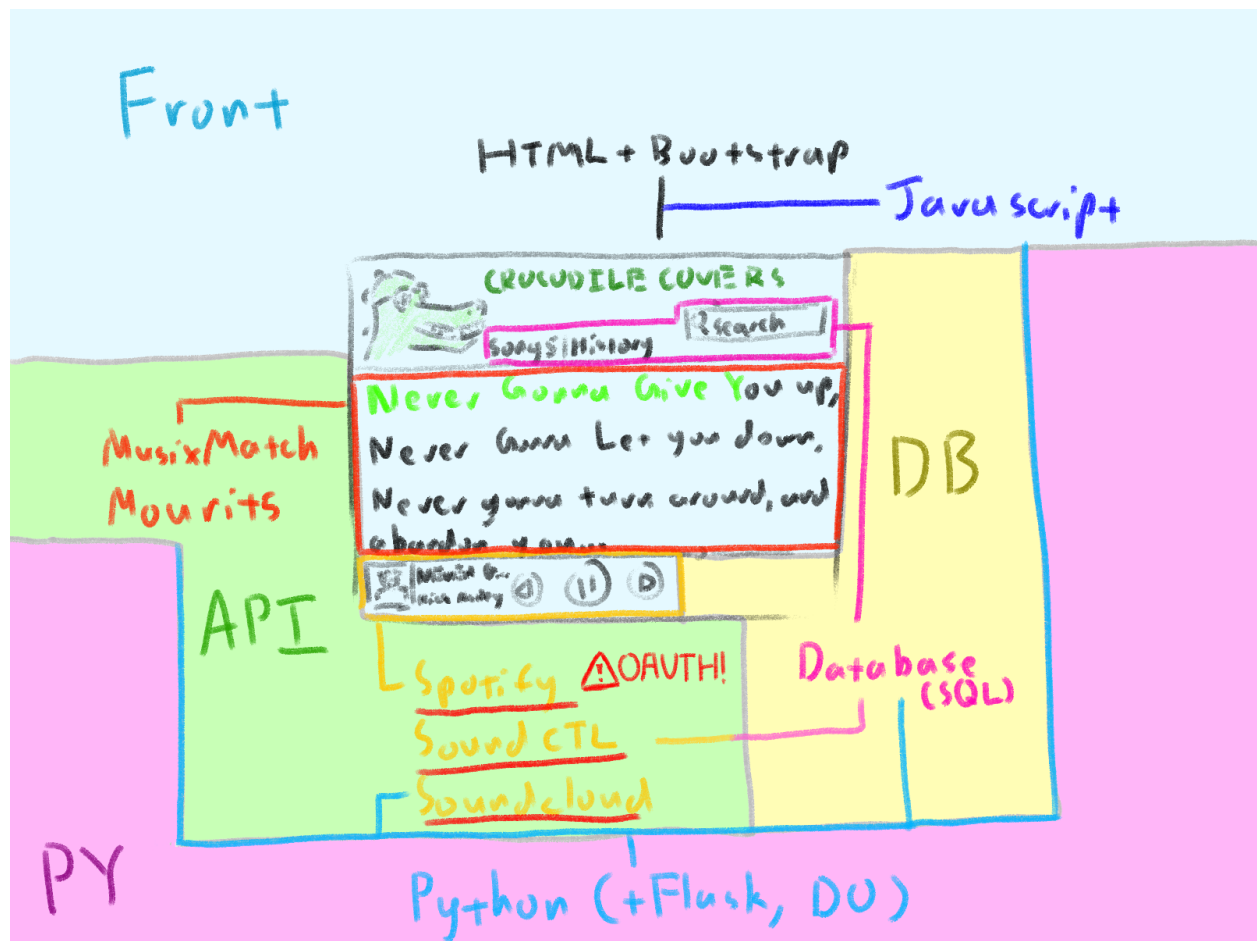
- MusixMatch: <https://developer.musixmatch.com/>
 - Provides song lyrics sorted by a multitude of tags (artist, genre, etc...)
 - Database too big to store locally; will have to do repeated calls for lyrics
 - does not use OAuth
- Word Cloud: <https://wordcloudapi.com/>
 - Create word clouds off of inputted words
 - Can change appearance, size, parameters of word cloud
 - Can output word clouds directly to HTML

DB

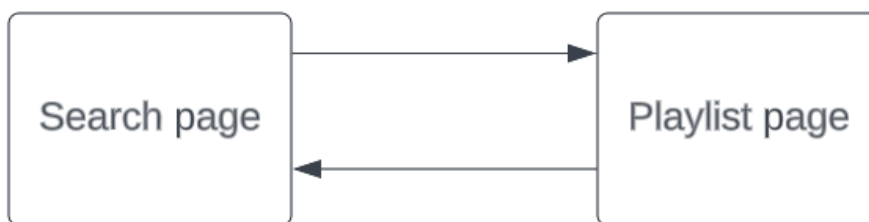
Sqlite3

- Stores artist, song title, lyrics for songs in playlist
- Words in a playlist (for word cloud)
- Previously requested songs (extra)

Components Map (need to update)



Site Map



Search Page

- Search bar in nav bar for songs to look for
- Upon retrieval of the correct audio and lyrics, JS shows the lyrics on the page for the user
- Have a pause and play button for music

Playlist Page

- Word cloud displaying most common words from lyrics in that playlist
- Word cloud can have filters for song title/artist/genre.
- Word cloud can also be hidden on click. Maybe like a dropdown?

- List of songs in playlist
 - button for each to play/pause
 - Accordion/dropdown for each song's lyrics

Task Breakdown

- Yuki - Visuals/Bootstrap
- Brian - Flask
- Ryan - DB
- Emily - APIs

To-Do

- ☐ Make API cards - Emily
- ☐ Figure out who writes JS file

Stretch Goals

- Light up words
- Multiple Playlists
 - Soundcloud for songs across playlists

Super Stretch (Hardware Intensive!!)

- Record audio, reference with audio tones should be, determine how well someone sung