

Team subtleAsianCoders- Matthew Chan, Eric “Morty” Lau, ray. lee., Yaru Luo
SoftDev1 pd01
Project Name: *Duende*
Design Document

Description: Our website is all about music🎵 We want to create two games: HigherLower and GuessTheSong. We also want to make user accounts where you can see all the songs you’ve liked from the two games.

APIs

- **Spotify:** Retrieves a user’s playlists, songs, and recommendations
- **Lyrics API:** (Genius or Musixmatch) - Retrieves a song’s lyrics.

Core Components

- A. Navigation Bar
 - Present on every page to easily log in/out, view home page, play HigherLower, play GuessTheSong, and see Liked Songs.
- B. User Accounts
 - Users must register for an account and log in to “Heart” new songs that they might like when they’re playing the games.
 - Users with accounts can view their “Hearted” songs, which will be linked to listen to the song on Spotify
 - Users can also link their Spotify accounts with their accounts, and use their own music from their Spotify account in the games instead of random songs
 - Don’t need to register to play games
- C. HigherLower
 - You’ll be shown two cards with the names of two songs. You simply have to decide whether the second card’s number of “monthly listens” is higher or lower than the first card.
 - Data about “number of monthly listens” to a song from Spotify API.
 - As you progress, you will be shown a new card. Choose higher or lower to decide whether it is listened to more or less than the previous card. The objective is to get the most right in a row. If you get one wrong, you lose the game.
- D. GuessTheSong
 - You’ll be shown the lyrics to a song. Guess what song the lyrics are from. MC.

Optional Components (if we have time)

- Allow the user to choose what genre of music they want their HigherLower or GuessTheSong games to be.
- FinishTheLyrics
 - You’ll be shown the lyrics to a song with two blanks in it. Fill in the blanks.
 - Multiple choice question.
- Song Search
 - Users can search for songs to find the song’s info/link to listen on Spotify or lyrics or songs similar to it.
- Use that quotes API to have motivational quotes

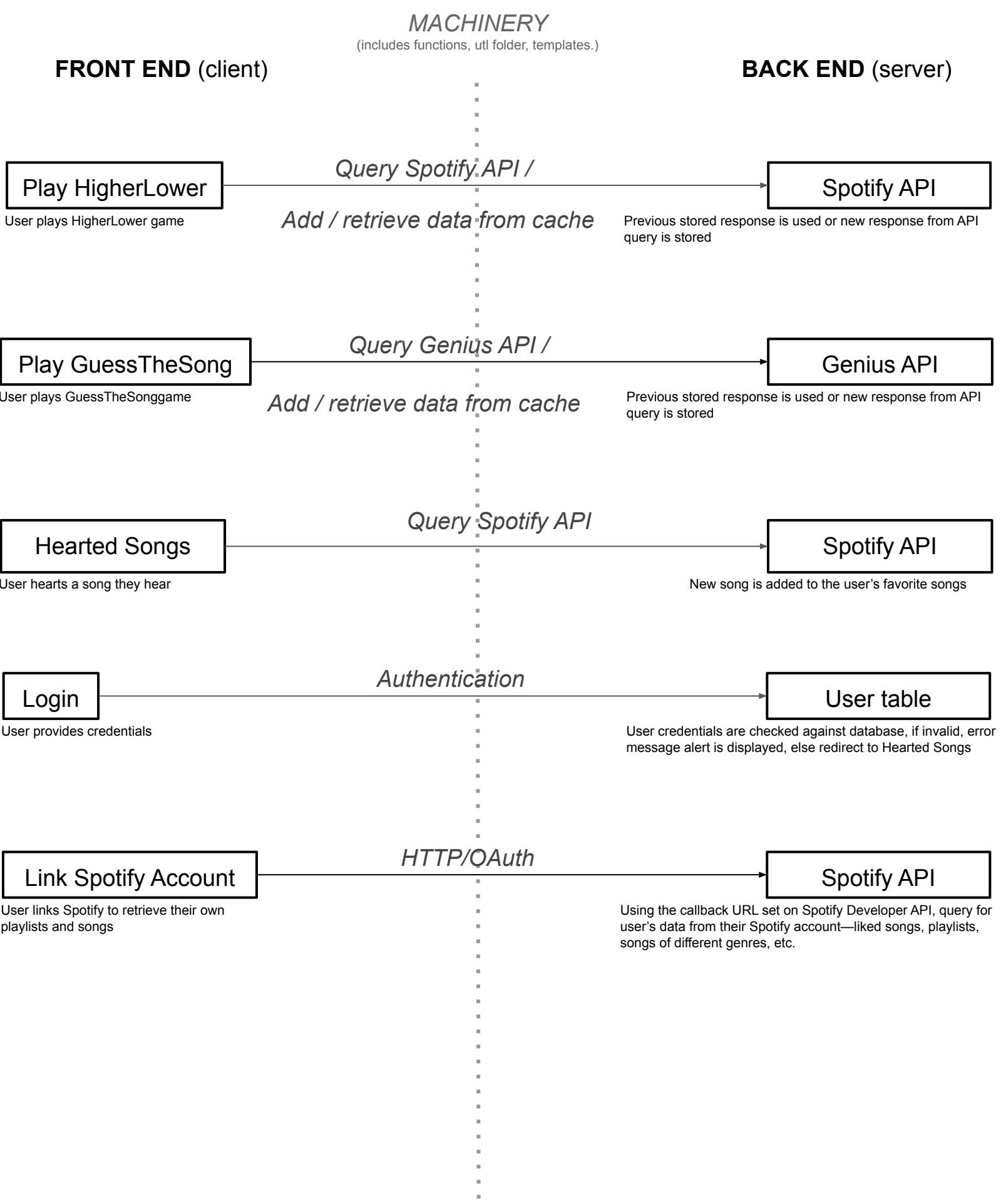
Communication App: Messenger

Breakdown of Tasks

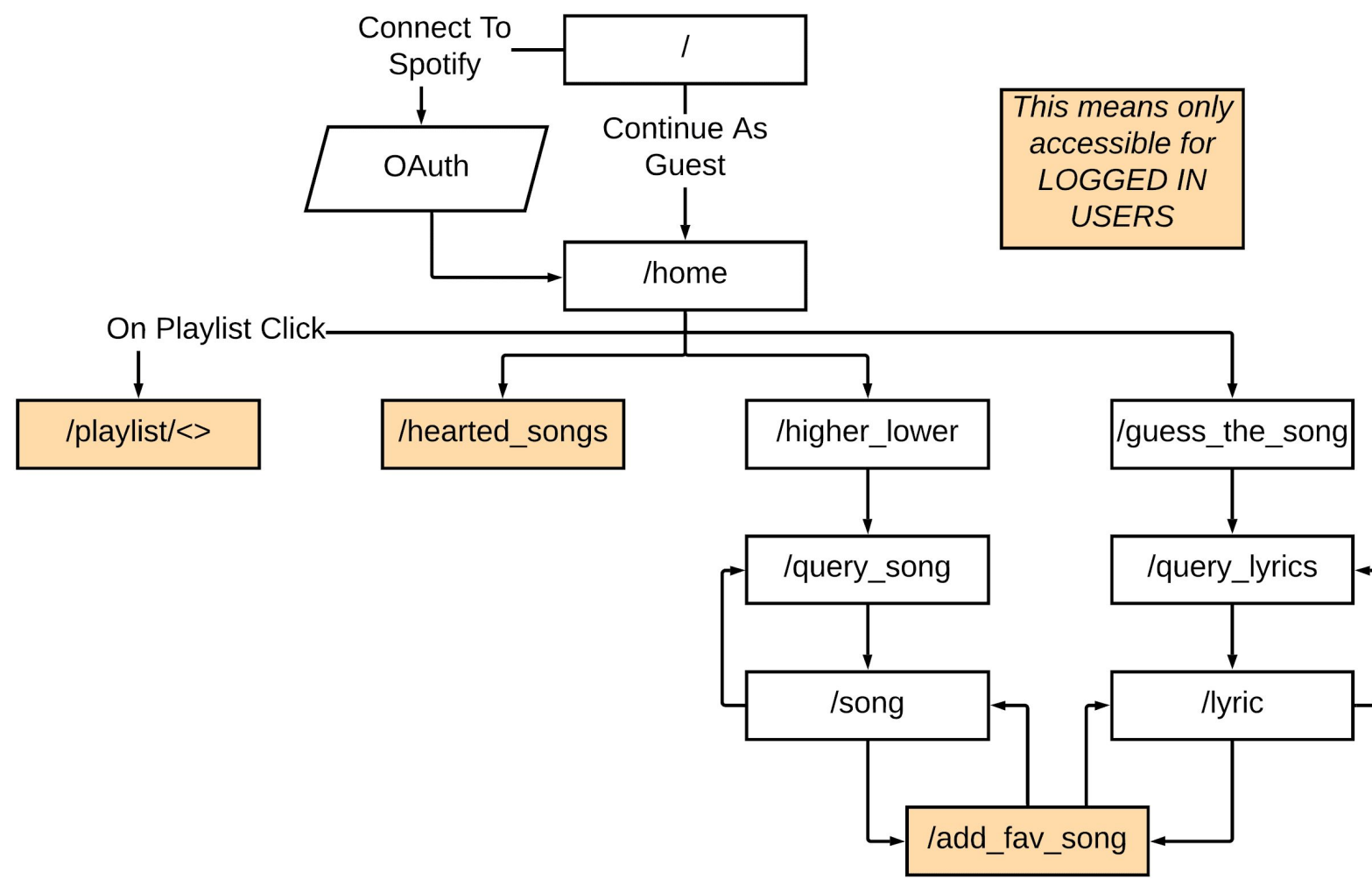
TASKS

- A. Project Manager (Yaru)
 - Oversees project development
 - Help with frontend/backend development
 - Updates devlog and design doc
- B. Frontend (Eric)
 - Creates HTML templates and pages according to sitemap
 - Jinja
 - Bootstrap and custom CSS styling
 - We are using Bootstrap because we are all more comfortable with it and believe it looks better than Foundation
- C. Backend (Raymond)
 - Write Python scripts to handle requests to modify or retrieve data from databases and APIs using HTTP/necessary OAuth
 - Integrate code from the last project for the login features
 - Make SQLAlchemy models for the database tables
- D. Database (Matthew)
 - Write Python scripts to handle requests to modify or retrieve data from databases and APIs using SQLite
 - Assist with retrieval from APIs using OAuth
 - SQLite/alchemy operations
 - Create, read, update, delete (CRUD) through SQLAlchemy to SQLite

Component Map



Site Map



Nav Bar

Home

HigherLower

GuessTheSong

My Hearted Songs

What songs are listened to more?

Cras justo odio, dapibus ac facilisis in, egestas eget quam.
Donec id elit non mi porta gravida at eget metus.

<

>

Play now

HigherLower
Donec sed odio dui.
Etiam porta sem
malesuada magna
mollis euismod.
View details >>

FinishTheLyrics
Nullam id dolor id nibh
ultricies vehicula ut id
elit.
View details >>

GuessTheSong
Morbi leo risus, porta
ac consectetur ac,
vestibulum at eros.
View details >>

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Nav Bar

Home

HigherLower

GuessTheSong

My Hearted Songs

The Higher Lower Game

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Non illo, alias animi iusto neque, sint corrupti? Laudantium, dignissimos id excepturi facilis, facere saepe quasi placeat praesentium ipsa sapiente illo molestiae?

Play Now

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Nav Bar

Home

HigherLower

GuessTheSong

My Hearted Songs

Log In/Out

“Supercut”

by Lorde

has

94,156,026

average monthly listens

▶

♥

play song heart song (can only heart if logged in)

VS

“High Voltage”

by AC/DC

has

Higher ▲

Lower ▼

average monthly listens than Supercut

▶

♥

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Nav Bar Home HigherLower GuessTheSong My Hearted Songs

Guess The Song

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Non illo, alias animi iusto neque, sint corrupti? Laudantium, dignissimos id excepturi facilis, facere saepe quasi placeat praesentium ipsa sapiente illo molestiae?

Play Now

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Nav Bar Home HigherLower GuessTheSong My Hearted Songs

"Yesterday, all my troubles seemed so far away / Now it looks as though they're here to stay / Oh, I believe in yesterday"

Beatles Come Together

Beatles Hey Jude

Elvis Presley Hound Dog

Beatles Yesterday

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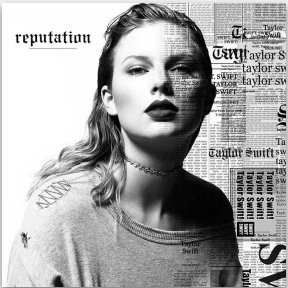
Connect with Spotify

Email address

Password

Guest

Sign in



“Getaway Car”

Artist: Taylor Swift
Album: Reputation

[Listen on Spotify](#)

[Listen on iTunes](#)



“Winter”

Artist: Khalid
Album: American Teen

[Listen on Spotify](#)

[Listen on iTunes](#)



“Whole Lotta Love”

Artist: Led Zeppelin
Album: Led Zeppelin II

[Listen on Spotify](#)

[Listen on iTunes](#)



“Aloha”

Artist: Møme
Album: Panorama

[Listen on Spotify](#)

[Listen on iTunes](#)

Database Layout

