MEMBERS:

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APP NAME:

Music Streamz

APP TAGLINE:

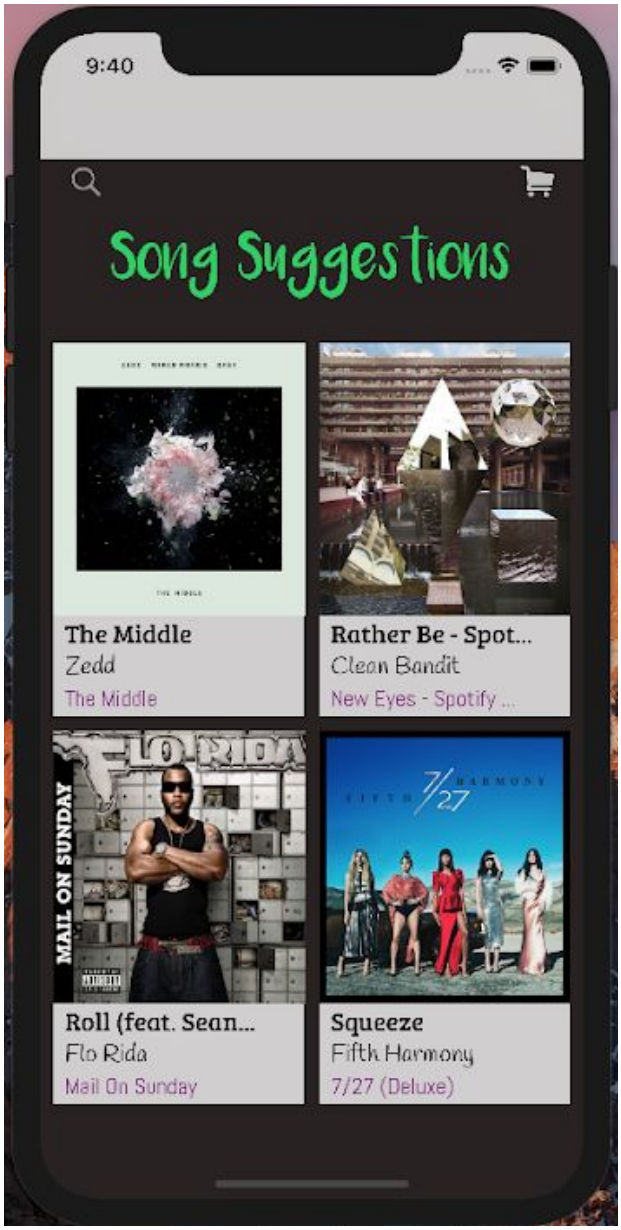
Geared towards your personal music taste, Music Streamz finds the best music streaming app for your playlist while simultaneously recommending songs based off your recent searches.

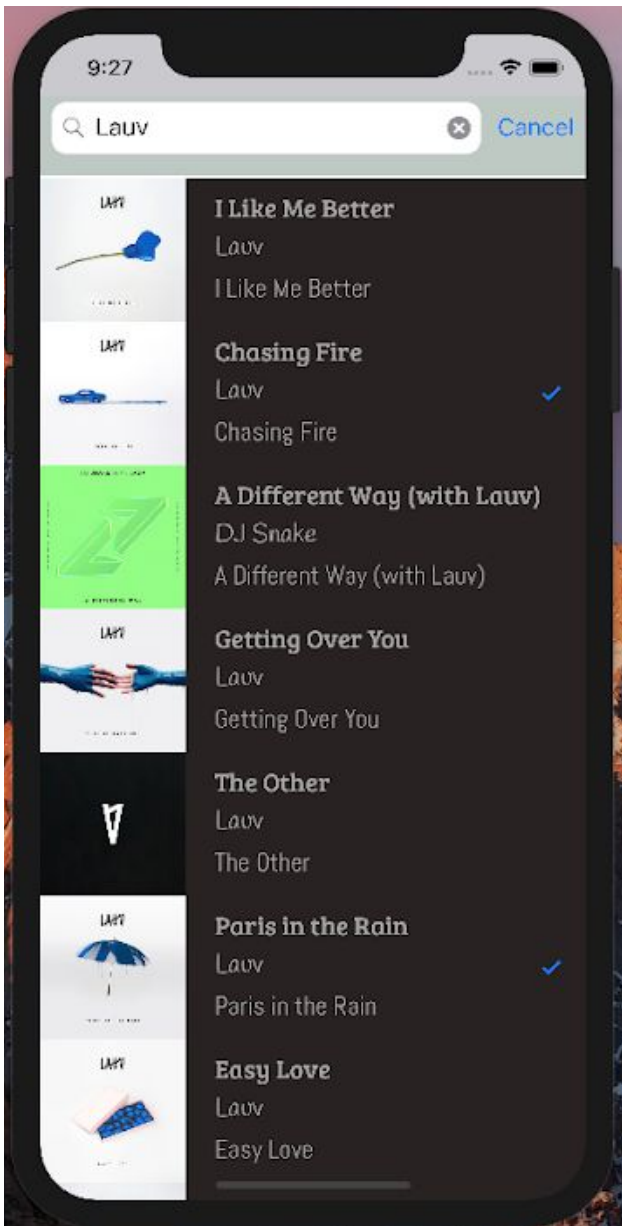
GITHUB REPO:

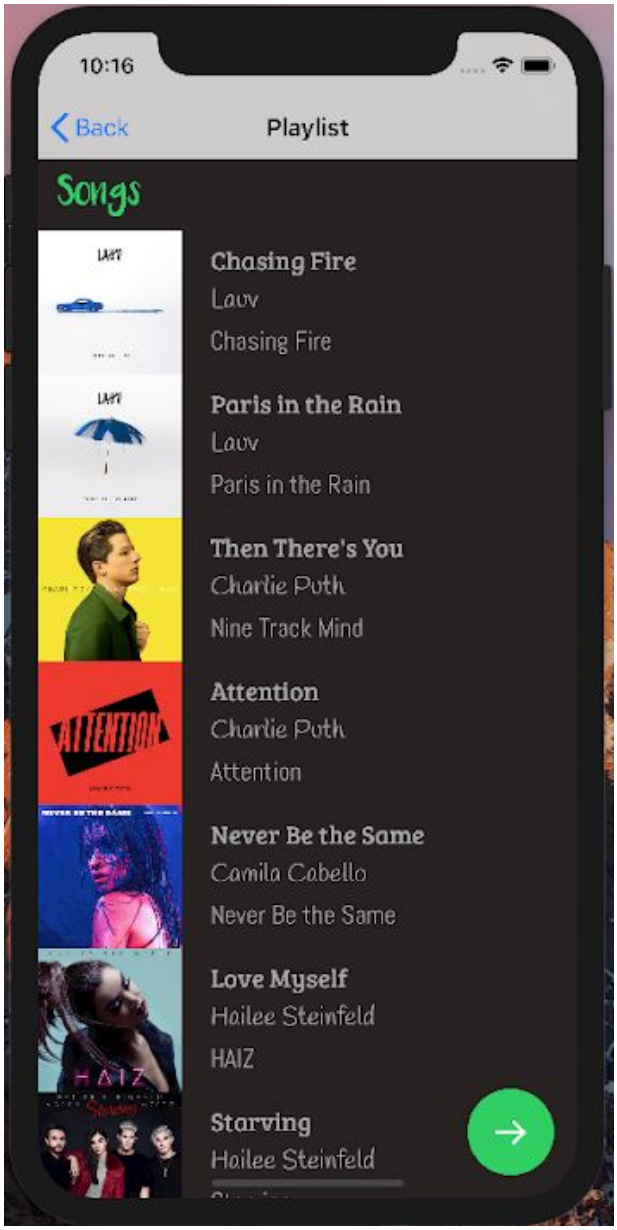
https://github.com/tyleri/music-streamz

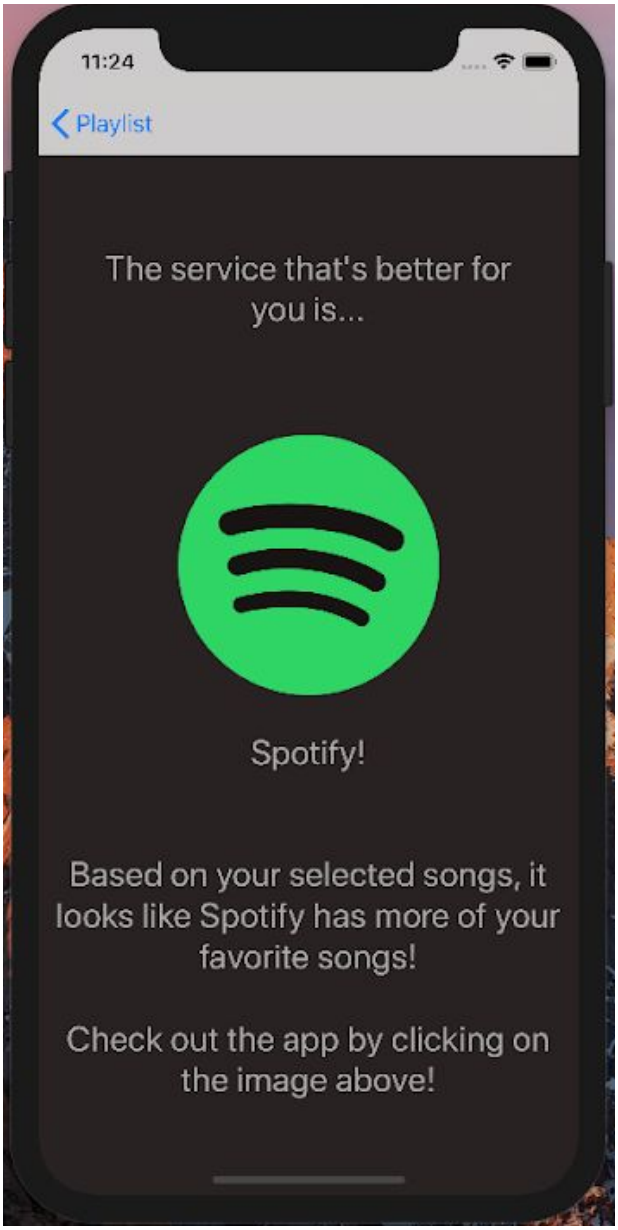
SCREENSHOTS:

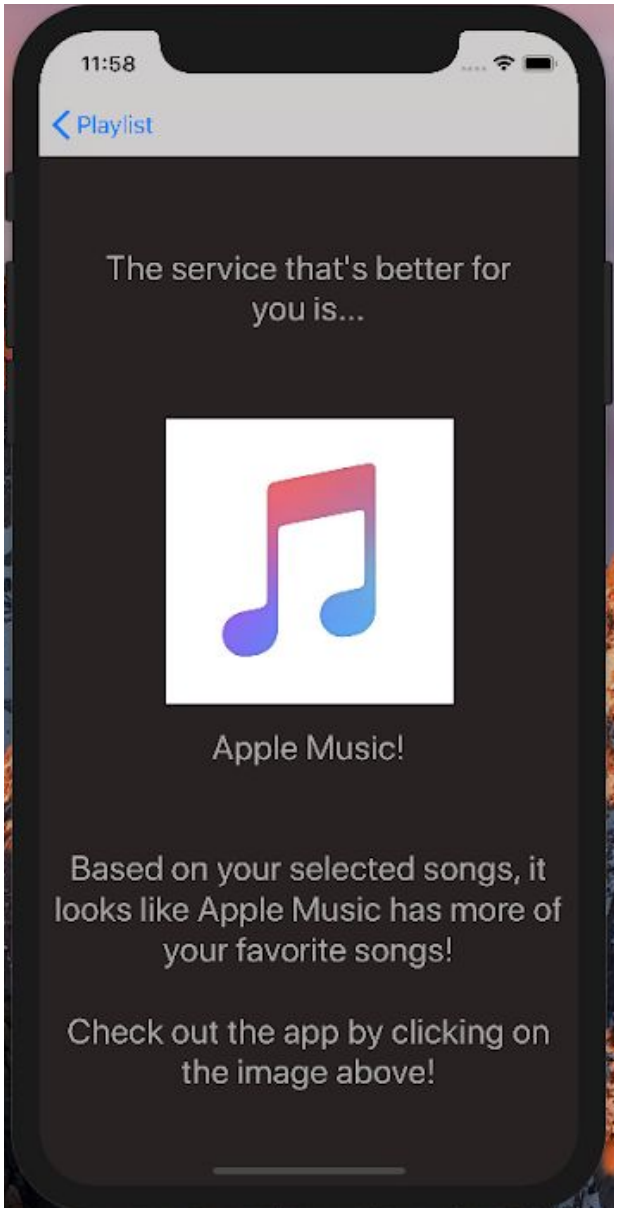
(see next pages)

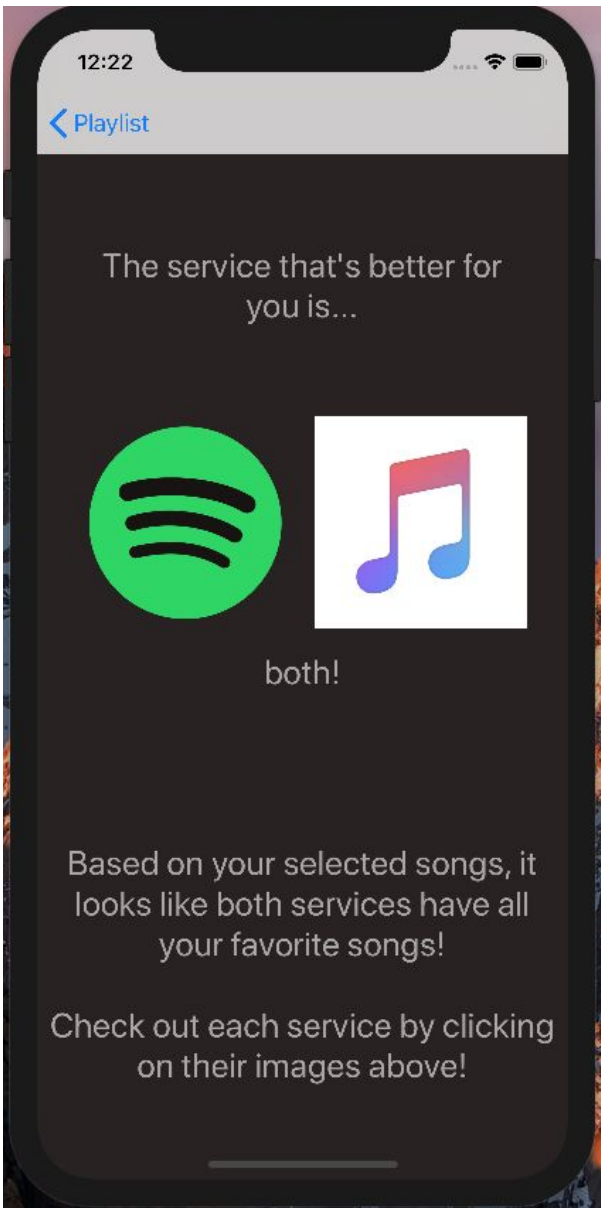

9:40
Song Suggestions
The Middle
Zedd
The Middle
Rather Be - Spot...
Clean Bandit
New Eyes - Spotify ...
MAIL ON SUNDAY
Roll (feat. Sean...
Flo Rida
Mail On Sunday
7/27
Squeeze
Fifth Harmony
7/27 (Deluxe)

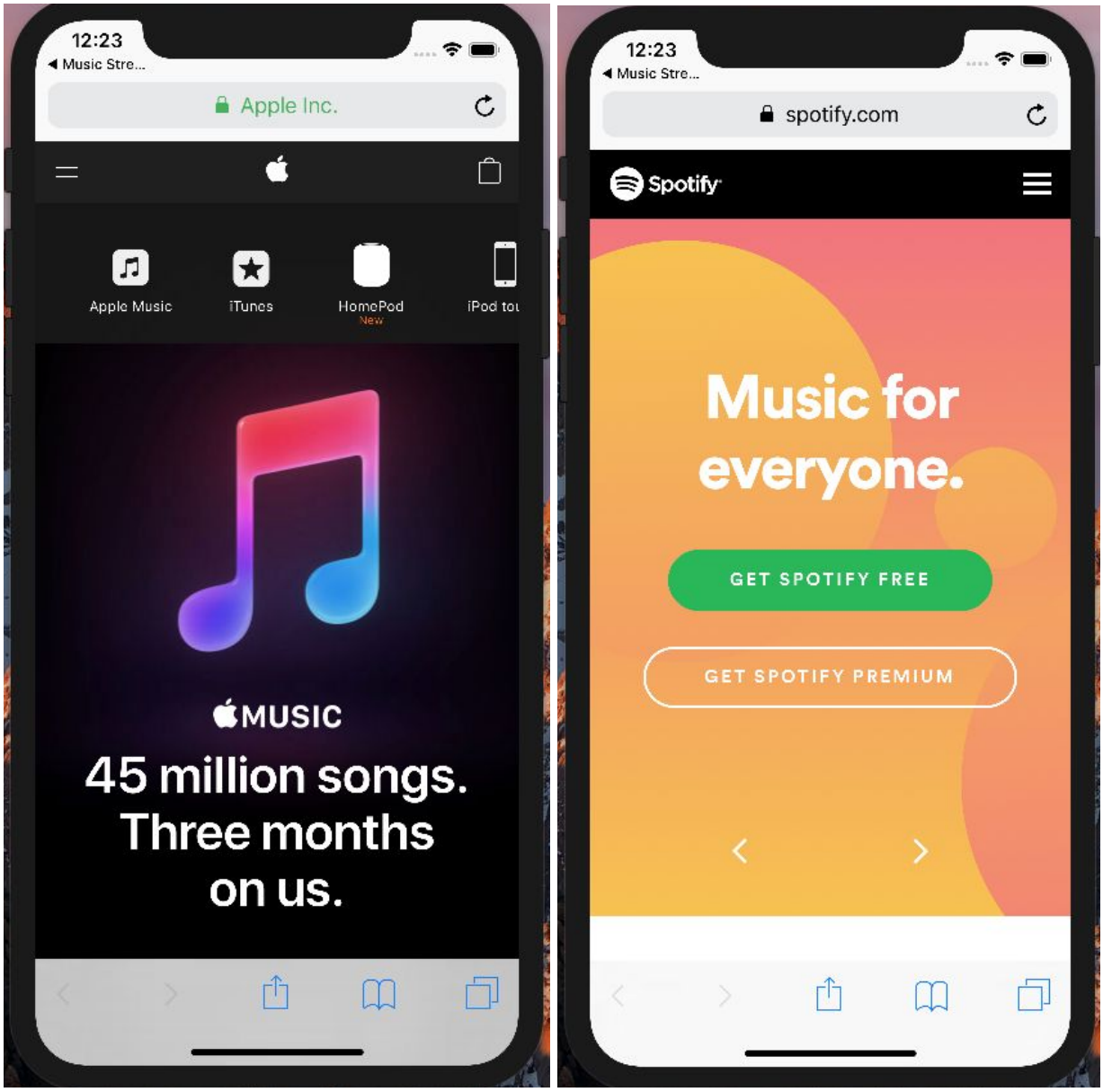

9:27
Lauv
Cancel
I Like Me Better
Lauv
I Like Me Better
Chasing Fire
Lauv
Chasing Fire
A Different Way (with Lauv)
DJ Snake
A Different Way (with Lauv)
Getting Over You
Lauv
Getting Over You
The Other
Lauv
The Other
Paris in the Rain
Lauv
Paris in the Rain
Easy Love
Lauv
Easy Love


10:16
Back
Playlist
Songs
Chasing Fire
Lauv
Chasing Fire
Paris in the Rain
Lauv
Paris in the Rain
Then There's You
Charlie Puth
Nine Track Mind
Attention
Charlie Puth
Attention
Never Be the Same
Camila Cabello
Never Be the Same
Love Myself
Hailee Steinfeld
HAIZ
Starving
Hailee Steinfeld


11:24
Playlist
The service that's better for you is...
Spotify!
Based on your selected songs, it looks like Spotify has more of your favorite songs!
Check out the app by clicking on the image above!


11:58
Playlist
The service that's better for you is...
Apple Music!
Based on your selected songs, it looks like Apple Music has more of your favorite songs!
Check out the app by clicking on the image above!


12:22
Playlist
The service that's better for you is...
both!
Based on your selected songs, it looks like both services have all your favorite songs!
Check out each service by clicking on their images above!



DESCRIPTION:

The purpose of Music Streamz is to convenience the user by comparing two API's, Apple Music and Spotify, to tell the user which is the better of the two applications for servicing one's music needs. Features include a search bar - with which one can search up a song, artist, or album, icons that enable navigation between different pages on the app and gives direct access to either/both Spotify and Apple Music, and a Recommendations page that takes into consideration past searches the user has made so that the main page is personally fitted for the consumer.

REQUIREMENTS:

- Use AutoLayout

In our constraints function, we utilize leadingAnchor, trailingAnchor, etc to ensure that our image, label, text positioning wouldn't be hardcoded to constants. The app can be displayed on various iPhone dimensions as a result.

- Use CollectionView + TableView

We use the UITableView for the search navigation page and for the cart navigation page. This is because music applications commonly display songs (with artist and album information) in rows, with reusable cells that appear as you scroll down. For the main page, we use the UICollectionView to display four recommended songs; this allows for an eye-catching display upfront.

- Use some sort of navigation

Our ViewController, controlling most of the code for the main CollectionView page, navigates to the search and cart pages with button presses. The search page uses modal navigation and is thus presented directly on top of the ViewController. The cart page uses the back button to slide back to the main, as well as an arrow button to navigate to the results page. Ultimately the results page navigates to the Spotify or/and Apple Music sites.

- Integrate an API

The APIs we incorporate are the Spotify and Apple Music APIs to act as music sources from which we are able to pull music real-time. These APIs are accessed by utilizing the work done by the backend part of the project.

- Implement an API using Flask boilerplate

Our API was developed off of the Flask boilerplate that was provided in A1 (Todo list).

- Have some sort of database modeling

We use MySQL to store data about songs from Spotify and Apple Music, including information about which services each song can be found on.

- Deploy it on Google Cloud

Our backend is deployed in Google Cloud and can be accessed at https://musicstreamz.tyleri.me, which just points to the IP address 35.190.164.37. The "/" route is not handled, but you can go to the route https://musicstreamz.tyleri.me/search?q=Chasing+Fire&page=1 to see the service in action.

COMMENTS:

We used office hours and referenced StackOverflow in some cases, like creating a resize function for our images and for some backend implementation, and furthermore used the Apple Developer site for looking up functions and classes outside the scope of class. We also utilized