

Project Proposal

Idea Description

Using Spotify API, we will create a program that can gather data and display what the top-played songs are for the current day for a given Artist. Additionally, the code could pull the top podcasts and top albums of the day. We could also expand this to include data for the week or month or even year. Another extension we can add is looking at different countries and their data. Lastly, we could also make an extension to see an artist's top songs.

Minimum Functionality

We will have a program that can search Spotify's API and return a list of the top songs of the day in the U.S.

Maximum Functionality

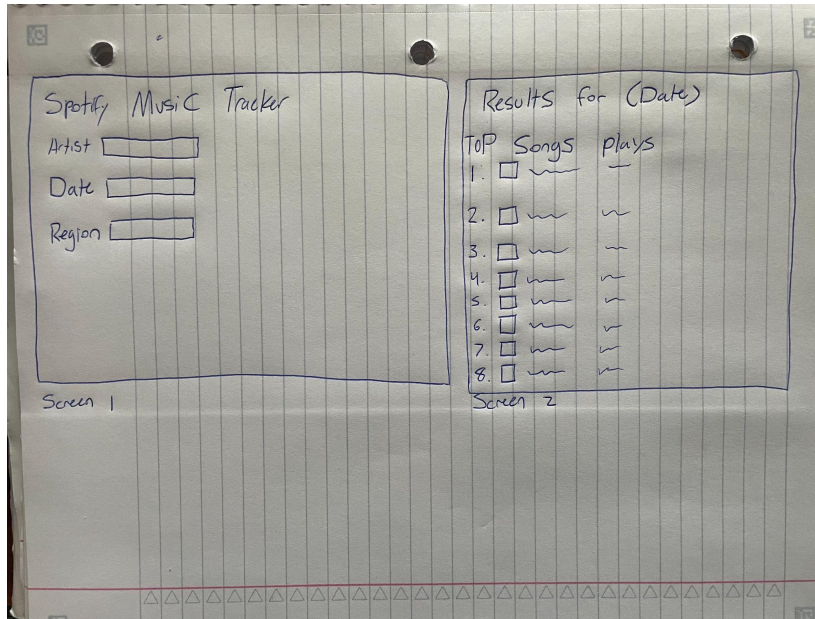
1. Podcasts
2. Top albums
3. Top songs of the day
4. Expand data to be capable of pulling different lengths of time (day, week, month, and year)
 - a. We might be able to expand this into the ability to see past data
5. Look at different countries
 - a. We might be able to look at different regions in countries
6. See an artist's top songs.
7. Add album cover to songs listed (maybe top 3 songs)

Schedule:

- Thursday the 14th: Menu with a sample data set

- Tuesday the 18th: Apply API to the minimum product
- Thursday the 20th: Manipulate API to add one of the extensions
- Tuesday the 25th: Add two more extensions
- Monday 5/1: Have code polished and ready for submission

Pictures:



Classes and Objects:

Class: Song

- Song name
- Artist
- Album
- Picture
- Date Range
- # of plays
- Country

Class: Display

- Line that is displayed
- Location

Library

Graphics.py

Text editor