

Sprint-1 Artifact

Members: Thet Zaw , Marco Baez Pulido , Jessie Lu , George Orduno Galicia , ytoon001

Database:

Spotify HUGE database - daily charts over 3 years

- <https://www.kaggle.com/pepepython/spotify-huge-database-daily-charts-over-3-years>
- Size: 1.64GB
- Files: 2

Known Data:

1. Country (country's chart)
2. Date (day of chart)
3. uri (unique code for each song)
4. track (track and artist)
5. title (song's title)
6. artist (song's artist)
7. Genre
8. Popularity
9. Artist_followers
10. Tempo

Platform:

Web Application

Programming Languages:

- JavaScript/TypeScript

Frameworks:

- Express, React, Node

Features List:

Feature 1: Which tones (and other song characteristics) are the most popular.

Feature 2: Which song was #1 for the longest.

Feature 3: Which are the top 10 most popular genres by country.

Feature 4: Who has the most followers by country.

Feature 5: Which 10 artists have the most top 10 songs.

Feature 6: What is the average tempo of the top 200 songs by country.

This database provides us with the top 200 charts of 36 countries over 3 years. We will then use the Spotify API to obtain specific information about the top chart tracks and present patterns that are consistent with tracks of those charts. It will be an investigation into similar elements of top hits like their genres, tempo, speechiness, acousticness, instrumentalness, other information that the API provides, etc. Since the database accounts for 36 different countries, we are also

able to implement a feature to allow us to sort by countries/regions/continents so that users can find out what people of different countries/regions/continents prefer in music. After that, we will try to implement another feature that allows us to choose two countries and compare their top charts and the preferences in specific elements in music.