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Fall 2020 CS 30700

Team 6

Project Charter

Problem Title: JudgeMe

Problem Statement:

Spotify is a webapp that allows users to stream music to their phone, create playlists, and find new songs based on the characteristics of a song, playlist, or artist.

Spotify has useful features for curating and comparing playlists and music taste between users, but this sort of functionality is lacking in regards to groups; music taste can vary greatly in friend groups, and it can be hard to find music to play in the car that everyone can vibe with. There is no feature that compares the music taste of a user with the music taste of their group of friends, and there is also no feature that generates a playlist based on the interest of a group of people.

Problem Objectives:

Our objective is to create a webapp that will connect to the user's Spotify account, use their data to find their music interests, and then compare it with other users.

Using the music interests of a select group, JudgeMe will create graphs to show how the group's music tastes differ. With this same data, JudgeMe can create a playlist that everyone in the group will like using the interests of the group. In addition, JudgeMe will rank the friends of a user based on how similar their music taste is to the user.

Stakeholders:

Project Managers - Jakob Hain

Project Owners and Developers - Aarushi Singh, Sujal Timilsina, Kenny Park, Nick Pancione, John Robinson

Users: Friend groups who use spotify and all have different music tastes

Project Deliverables:

A webapp where a user logs in with their spotify and the following features are present through the use of the Spotify API:

1. Accept data from the Spotify API.
2. Create an intuitive UI that implements all the features using the Django (full stack) web framework.
3. Create a database using SQLite to store information on a Spotify user.
4. A user can run comparisons/analysis of their playlists and other playlists, in addition to ranking their friends by music taste.
5. A user can generate a playlist with many people rather than just one friend based on common music, and they can also find the most compatible playlist among their friends.
6. Playlist creation based on different criteria; such as mood/genre, artist, your friends' music, and songs from selected playlists.