SpotLuck (Links to Github repo)

:party-otter:

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Description

The goal of our application is to help users find new songs that fit in certain categories. We will do this by allowing users to post categories/prompts like “Best song to cry to” and allow other users to submit songs from the Spotify API as a response to the prompt. Users can also comment on prompts and vote on the submitted songs based on how well they fit the prompt.

Each prompt will have a top-voted song and the user that submitted that song will have that top-voted notice added to their profile. Users can listen to 30s snippets of each submitted song in the browser (unless they are Spotify Premium users, in which case they can listen to the full song).

On the user dashboard we will display their information as well as the number of times their song submission has been voted top-song. We will also recommend songs based on the weather in hopes of introducing users to even more new songs. We will also have a Home page with a feed to show the latest prompts that have been posted, as well as when the results of a prompt are available.

Course Technologies

React: We will be using React with React Bootstrap for our frontend.
Redis: We will cache data using Redis in order to improve user experience and load time.
Firebase: We will be using Firebase to handle user authentication through the Spotify API. This is a general guide for how we will implement it.
Typescript: Vanilla JS is painful, type systems are great. Typescript is ideal for implementing abstraction layers and defining objects that can be easily translated into frontend components.

Independent Technologies

ElasticSearch: We will be using Elasticsearch as our database. We prefer Elasticsearch over MongoDB due to better support for multiple filters and search operations.
ImageMagick: We will use ImageMagick to crop album art and profile pictures into uniform sizes, because doing that with pure CSS for Spinder was annoying.