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CS411: Project Pitches

Idea 1: Mood-based Playlist Generator

We would have a web server where users can log in and report their moods for the day, who they spend the day with, what kind of events took place that day, and the music they listened to that day. The website should then output a Spotify playlist to the user according to the mood for that day. Users can automatically share their daily mood playlist with others through another platform - tentatively, this will be Gmail (although we will likely use Twitter). Users will have accounts and will authenticate themselves with Google's OAuth, and user information will be stored in a database (likely MongoDB), along with their mood playlists for the past x days.

APIs to be used:
Spotify API: https://developer.spotify.com/
Gmail API: https://developers.google.com/gmail/api/guides
(maybe) Twitter API: https://developer.twitter.com/en/docs/twitter-api

Idea 2: Book-based Playlist Generator

We would have a web server where users can input a book, and the user can either input a Spotify playlist that they feel would be a good ambiance playlist for reading the book, or ask the website to generate an ambiance playlist based on the book. Generated playlists for each book will be partially influenced by playlists submitted for the book by other users. Users will have accounts where they can store a "library" of books, and (maybe) view all playlists submitted or generated for the book. A rating system may also be implemented to rate playlists based on how well they worked for the book. A database (likely MongoDB) will be used to store both all playlists generated or submitted for each book in the Google Books database and all user information.

APIs to be used:
Spotify API: https://developer.spotify.com/
Google Books API: https://developers.google.com/books