

VibeMaster by Christian Heesgaard Kjaer

As an experience-oriented individual, I prioritize ambiance, aesthetic, and “vibe” when seeking out and planning fun or relaxing experiences. However, manually determining every aspect of an experience can be mentally taxing and time consuming. Whether it’s choosing music, visuals, foods, or lighting, so much goes into building the feeling of an environment.

VibeMaster

The vibe planning and setup process could be streamlined through the assistance of VibeMaster. At the minimum, vibemaster would either be a tool that can match spotify recommendations to your local weather, or a tool that can search a query and provide a visual from unsplash and spotify playlist related to the search. The end goal is to provide visual/auditory recommendations in line with the experience you are looking for. Anyone could use this for any scale: from individual study sessions, to cocktail parties. Users would be able to type in a word or phrase in line with their target aesthetic, and receive a fullscreen visual and a recommended spotify playlist. Become a master of function planning and vibe-setting with the ease of a single search.

Minimum functionality

- Spotify connection - <https://developer.spotify.com/documentation/web-api>
- Two possible routes
 - Image results for query - <https://unsplash.com/developers>
 - Pulls up recommended spotify playlists to match that query
 - Spotify recommended playlist to match local weather from <https://openweathermap.org/api>

Stretch Goals

Additional features such as suggested recipes and movies could be implemented as well. I’d also like to experiment with hooking it up to a python script that can control the LEDs in my room to match whatever the most prominent color is in the visual returned. Features like this will likely be just for me, as RGB strips all work differently, and this method will only be able to control my brand locally via bluetooth.

- Local weather mode (if this is not the minimum functionality route I take)
 - Weather Data from <https://openweathermap.org/api>
- Lighting control (using most prominent color in image result):
From https://www.reddit.com/r/androiddev/comments/ilfk1f/reverse_engineer_rgb_led_strips_app/
- Food recommendations for query
 - Semantic search from <https://spoonacular.com/food-api>
- Spotify playback control through the web
 - <https://developer.spotify.com/documentation/web-api>

Interactive Website

I want anyone to be able to use this service (although direct spotify control and playback would limit use to exclusively spotify users). To support this broad audience in searching a query and receiving spotify results and a background visual, an interactive website seems like the best method for that presentation. This is the appropriate choice as it would allow for convenient access to this project for anyone with a browser.

Development Plan:

Week 1:

- Utilize Spotify API to return recommendations
 - Learn how account connection / control playback works
- Determine development path
 - Get weather data from openweather
 - see how to transform data into a searchable and relevant spotify query
 - OR
 - Use Unsplash to return background image
 - Implement format for search query compatible with both unisplash and spotify

Week 2:

- Implement interactive web application hosted on pythonanywhere
 - Search Query
 - Layout of resulting content
- Test search effectiveness and adjust

Week 3:

- Implement stretch goals
 - Integrate python script that can control local LEDs via bluetooth
 - Set hue to most prominent color in resulting image
 - Integrate spotify playback control
 - Include foods, recipes, movies etc. in recommendations