

Team Deliverable #1- Project Ideas

**Idea #1 - Play Music Matching Weather:**

**Problem to solve:**

Someone is listening to music, but it just doesn't fit the mood based on the current weather, or they are getting sick of their current music and want a fun way to explore new music.

**General Structure:**

Receive request for music, find weather at current location of request (this step may be more complicated based on the API), evaluate the weather to a simple value (may be less complicated based on the API), find playlist/song based on the weather, output the playlist/song.

**Possible Additional Functionality (For requirements):**

- Login / Use Spotify account
- Save playlists/songs to database

**Possible API's to use:**

- **Weather API's:**
  - Weather API: <https://www.weatherapi.com/>
  - Yandex Weather API: <https://yandex.com/dev/weather/>
  - OpenWeatherMap: <https://openweathermap.org/api>
- **Music / Spotify API's:**
  - Deezer: <https://developers.deezer.com/>
  - Watson: <https://www.ibm.com/cloud/watson-natural-language-understanding>

## **Idea #2 - Recipe List from Available Groceries:**

### **Problem to solve:**

Someone has a grocery list or plenty of food in their fridge/pantry but no idea what recipes to make with it, this will simplify the process of searching for what to make. This can be good for college students who do not know what to make of the food they bought, or people who like certain foods/ingredients but do not know any recipes to make with them.

### **General Structure:**

Input a list of ingredients, search for recipes that match with the most amount of ingredients inputted, and output the list of recipes sorted by most matched ingredients.

### **Possible Additional Functionality (For requirements):**

- Login
- Save lists/recipes to a database linked to your account
  - Rate recipes
  - Save recipes into groups (Pinterest style)

### **Possible API's to use, all have functionality of searching for recipes based on ingredients:**

- Tasty: <https://rapidapi.com/apidojo/api/tasty/>
- Zestful: <https://zestfuldata.com/>
- TheMealDB: <https://www.themealdb.com/api.php>
- Spoonacular: <https://spoonacular.com/food-api>