Deliverable 1

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Github Repo: https://github.com/yzw19990124/CS411Group5.git

Idea One: (Use facial recognition and analysis, gives Spotify/Youtube playlist to match mood)
Database: Require users to upload a selfie of themselves along with their user profile information(Name, Gender, Age, Music Genre Preferences).
Public API: Meerkat Facial Recognition API, Spotify Web API, YouTube Data API
Third-Party Authentication: OAuth Access Token from Spotify API to access users' personal playlists and liked songs.
User Benefit: The expected product would benefit users in deciding what type of music that currently they might want to listen to(If the user makes a sad face, the algorithm would recommend some uplifting songs to cheer the user up or EMO songs if the user wants to stay sad). Users simply need to upload a selfie that might best represent their current mood to the product. The product would then publish several playlists or a couple of specific songs to users based on the calculation result from the facial recognition.

Idea Two: (Find your next vacation)
travel-suggestion webapp
General idea: Make users fill out a survey with interests, e.g. travel for shopping vs. culture; for food vs. sightseeing; weather, etc. to find the most fit place for travel
Database: Require users to create their profile with the survey described in the general idea
Public API: Weather API, Yahoo Travel API, Sygic API
Third-Party Authentication: OAuth Access Credentials from Google to enable secure access
User Benefit: This web app is designed to provide users travel place recommendations according to their preferences of the travel purpose. Users need to complete a simple survey of their expectations, and we find out cities / places that match the most with their survey responses.