Idea 1 - Analyzing user uploaded images of food in order to provide recipes for these meals or similar foods. In order to upload these images, users would log in to their Google Photos (which is where the images should be stored before using our website) and select which foods they would like the recipes for. We might also expand our scope and add features related to saving looked up recipes for users to look at at a later time, however this is not definite yet. For this project, we plan to use Google’s Cloud Vision API for image analysis as well as a yet to be determined recipe search API (e.g. EDAMAM, Food, Food2Fork, etc.) as a minimum.

* Proposed APIs
  + Google Photos
  + Recipe Search
* Third Party Authentication
  + Google Account
* Database
  + Storing analyzed image information

Idea 2 - Emotion analysis based movie recommendations using a user’s most recent text conversations. We plan to accomplish this by having users log in to their facebook accounts in order to grab a sizeable portion of their most recent messages across several conversations and then run this data through a emotion analysis API. From here, we plan to create a map of movie genres which would help translate abstract moods into concrete, searchable movie categories. This could be accomplished by associating movie genres with either specific moods or a combination of moods; for example, an action movie could be associated with people who are a combination of angry, confident, and excitable.

* Proposed APIs
  + Facebook Messenger
  + Emotion Analysis (Watson)
* Third Party Authentication
  + Facebook Account
* Database
  + Mood-to-Movie map classification

**Github Repo Link** : https://github.com/JPVazquez/CS411-Project