Daily Log

Monday September 23

Did some research on barcode API's to get a change from logo detection

Tested logo detection code, but came upon credential error again.

Tuesday September 24

(Not in school for class, because of a doctor's apppintment - work done at home to compensate)

At home:
Worked extensively on trying to resolve credential authentication error issue. Tried setting environment variables through different means, like recommended on the Google website, but none worked. Also tried setting credentials directly again in the python file (which seemed to work before) but this did not help. After many frustrating and varied tries, decided to move on to deciding on a barcode API. Will talk to Mr. White about credential issue in school.

Decided on python library 'pyzbar' for barcode detection

Thursday September 26

Implemented 'pyzbar' for barcode detection

Tested barcode detection - successful in implementation :)

Timeline

Date	Goal	Met
9/12/19	Find a way to get reliable text reading (OCR) for food products and perform shape recognition (can, box, etc.)	No; Minimal successful results in identifying food products based on a picture. Shape recognition not attempted.'
9/19/19	Successfully set up Google Cloud Vision API to be able to successfully identify food products by logo	No; Cloud Vision was successfully set up on my computer, but then I began getting credential issues again - Identification of food products not able to be attempted yet.
9/26/19	Finalize Cloud Vision to be able to identify major logos and begin implementation of barcode API	Yes/No; Cloud Vision continued giving me errors. Barcode API implemented and successful.
10/3/19	Work with Mr. White to try and crack credential issues and be able to finalize Cloud Vision API	
10/3/19	Begin implementing shape recognition	

Reflection

This week had both moving forward and moving backward in different regards. The most prominent move backwards was definitely the re-introduction of credential issues that happened. I don't know why this occurred, as everything seemed to be working fine last week (all I needed was the billing account), but when trying again, these errors emerged. I am going to work with Mr. White this week to try and hopefully solve this problem once and for all, but if we can't get this to work I'm likely going to move to a different logo detection API or method. On the other hand, I did accelerate myself in the barcode API category, as I finished what I thought would take 2 weeks in one day. That will help me make room for other stuff down the road, which is very helpful. Overall, the credential error has and continues to be frustrating, but hopefully will be taken care of soon.