https://github.com/tyfa7215/3308_milestoneSubmissions

Project Features List

(green - immediate / orange - secondary / red - noncritical)
**(strikethrough is already complete)**

- Image recognition
    - ~~Google Cloud vision~~
    - ~~Logo color recognition~~
- Web interface
    - ~~Upload image for scanning~~
    - Direct to company websites and provides other information based on color and other aspects
- PostgreSQL database
    - ~~User database~~
    - Company database
- User account
    - Scan logos and receive info on the specific logo
    - A way to save previous scans
    - Share scans and events
- Client account
    - Add new logos
    - How many people scan logos
- Mobile interface (Optional if time left)
    - Connection to the website in a mobile-friendly format
    - Focuses on paired down user focused interface
- System camera implementation
    - Allows user to use their system camera to take and upload a photo
- Link Verification
    - Verify against malicious links

Architecture Diagram
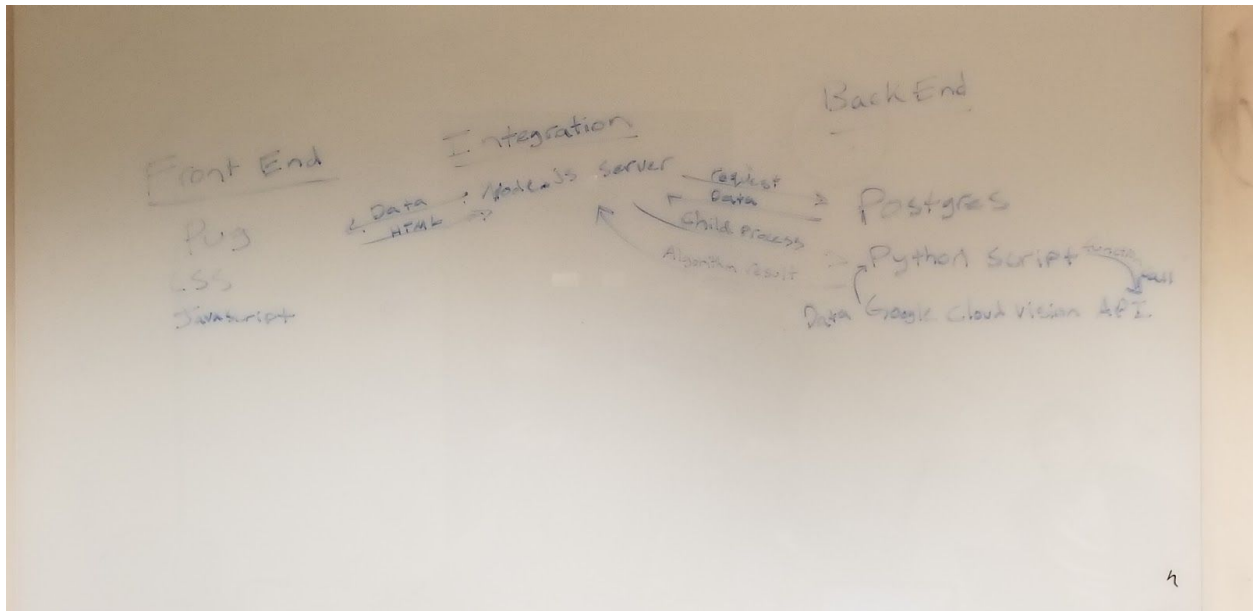
Front End Design
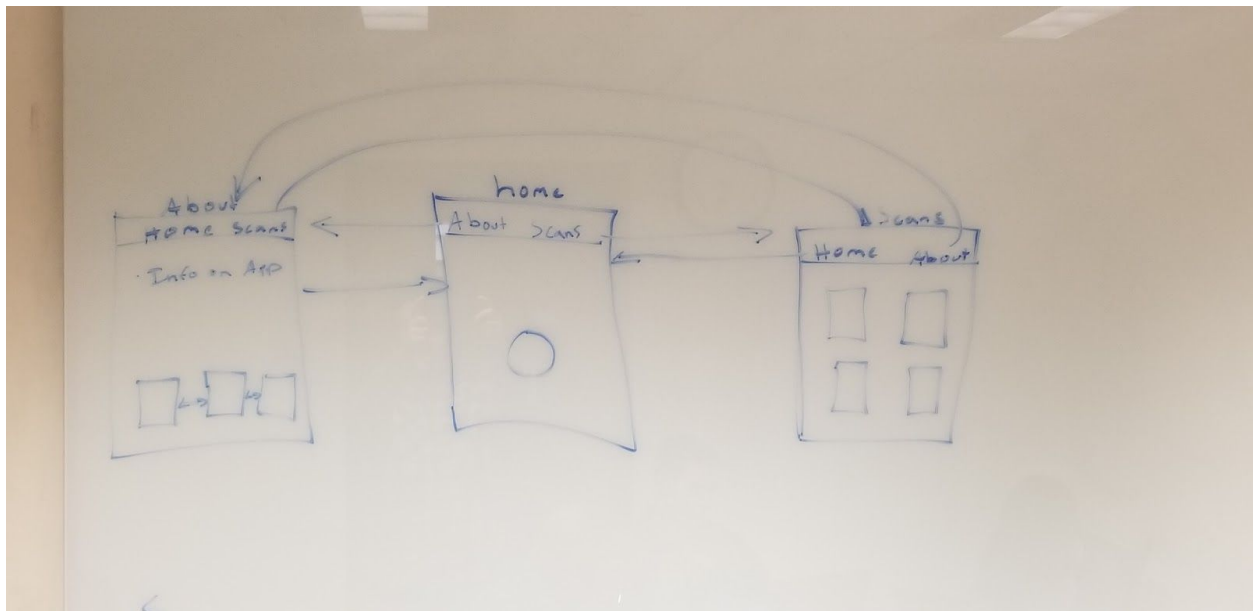
Web Service Design

Using Google Cloud Vision API, images are passed to the API and we request any text and colors that are detected by Cloud Vision.

Database

Integration layer

Set up server file and link with pug in order to populate images and create get/post request.

Backend

User postgreSQL database with the following:
- logo_id uuid DEFAULT uuid_generate_v4(),
- customer VARCHAR(50) NOT NULL,
- logo VARCHAR(50) NOT NULL,
- colors VARCHAR(50)[],
- text VARCHAR(50)[],
- link VARCHAR(300),
- info VARCHAR(1000),
- img BYTEA

The database will contain the user uploaded image with a generated UUID, customer provided information (customer, link, info), and AI generated info (colors, text). Customer provided information will be pulled from another database based on the elements generated by the AI. This database will contain the following:
- logo_id uuid DEFAULT uuid_generate_v4(),
- customer VARCHAR(50) NOT NULL,
- link VARCHAR(300),
- info VARCHAR(1000),