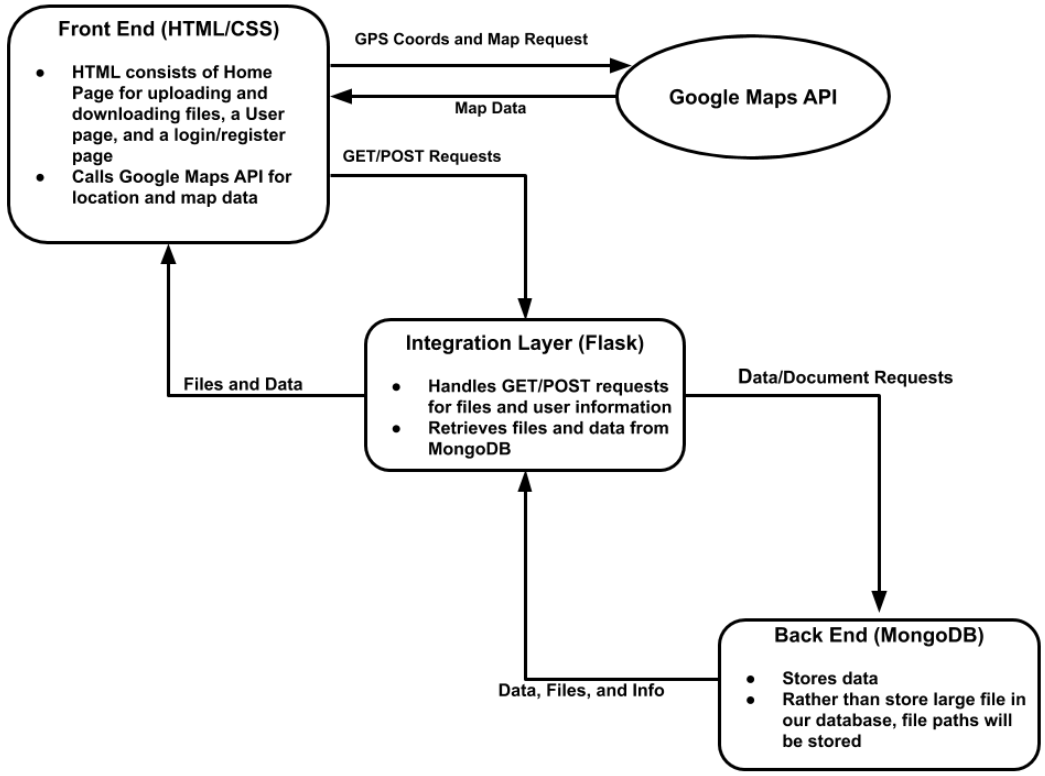
Team Name: camelCase
Team #110-2

Ryan Oroke, Siyuan Huang, Felipe Lima, Ilya Zinyakin, Zack Jorquera & Nadiv Gold Edelstein

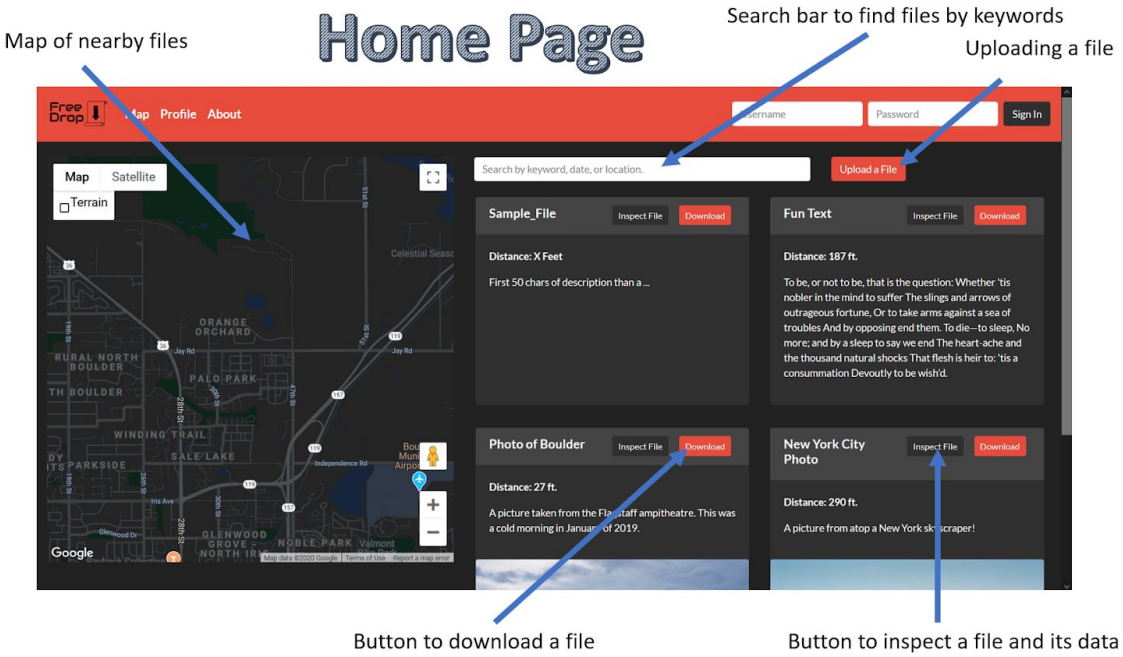
Revised List of Features

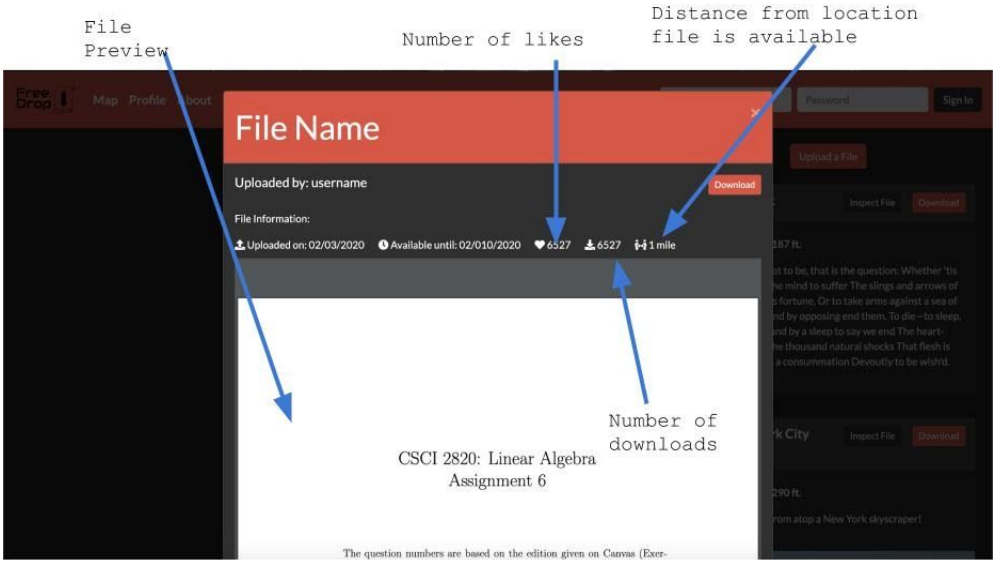
- **File Storage/Server - Priority**
  - We have a way for storing the files. This can be done using the servers OS file system and have the DB store locations.
- **Location Tracking - Geo-location - Priority**
  - Gets user location and queries server to find files in the range
- **Post/Download - Posting requires logging in / download doesn't - Priority**
  - Access restrictions
  - Messages
  - Time spam
  - Distance from the file/radius
  - Categories
  - Like files
- **Public/Password Protected file**
  - Let users choose between uploading their files so that anyone in the provided radius can download them or require that users add a password to their file so that only certain users, those with the password, can download the file.
- **Login/User**
  - Logs user in to post files and access private files
- **Filter Search**
  - Search through uploaded files by name, tag, upload date, uploader, or filetype
- **Map - Priority**
  - Map feature lets you search for files based on the map view
- ~~**File Ticker**~~
  - ~~Shows number of files uploaded and where~~
- **Private Files**
  - Restrict users that can view files

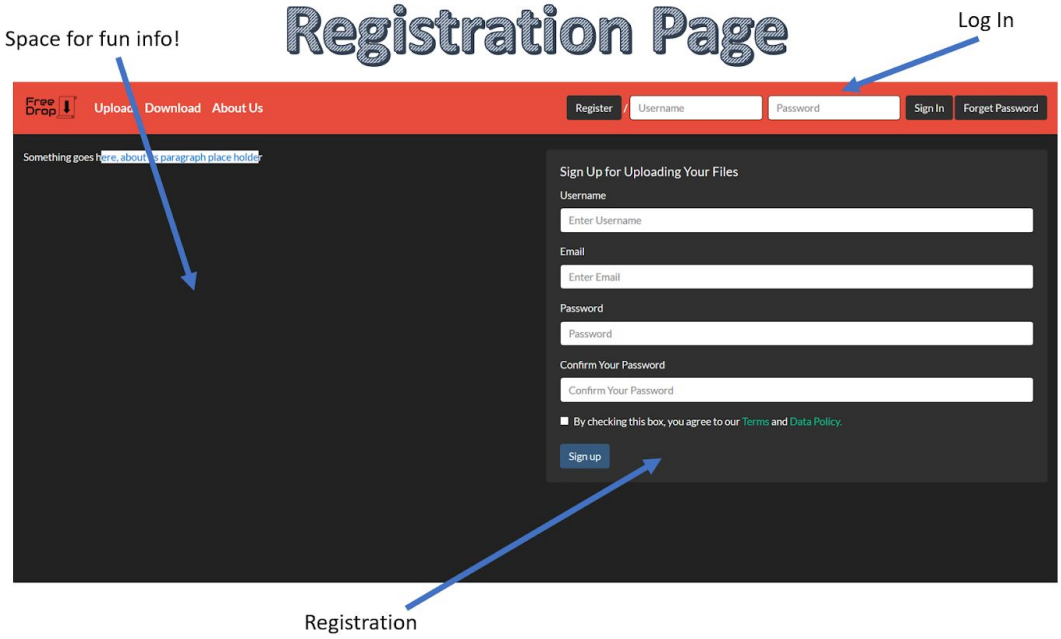
Architecture

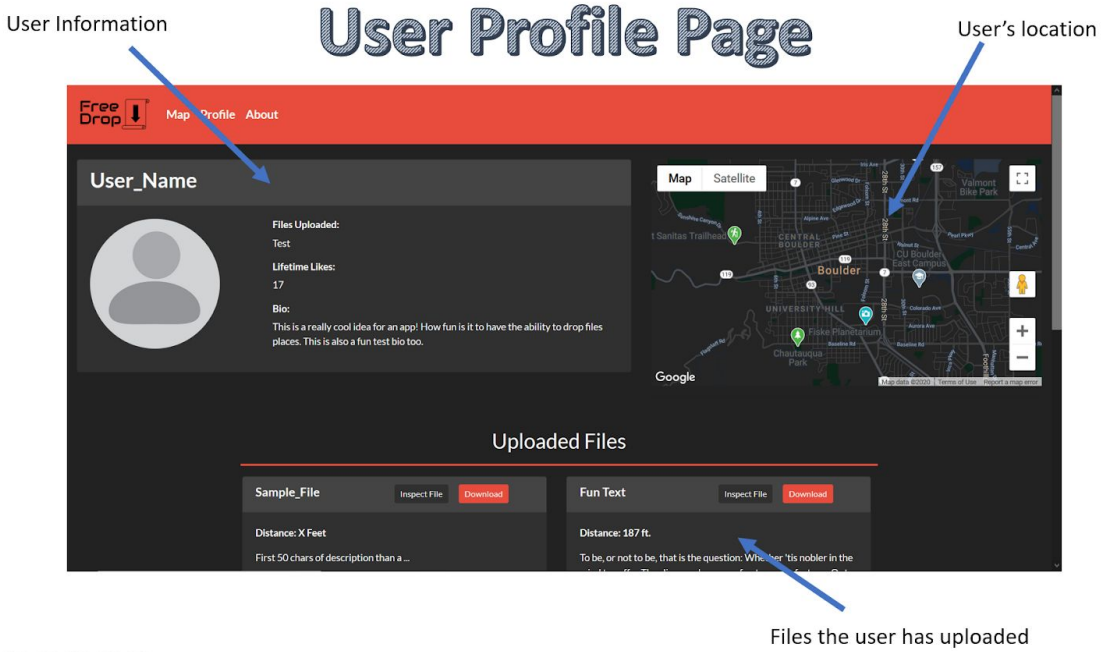


Front End Design




File Preview
Number of likes
Distance from location file is available
File Name
Uploaded by: username
Download
File Information:
Uploaded on: 02/03/2020
Available until: 02/010/2020
6527
6527
1 mile
Number of downloads
CSCI 2820: Linear Algebra
Assignment 6
The question numbers are based on the edition given on Canvas (Exer-

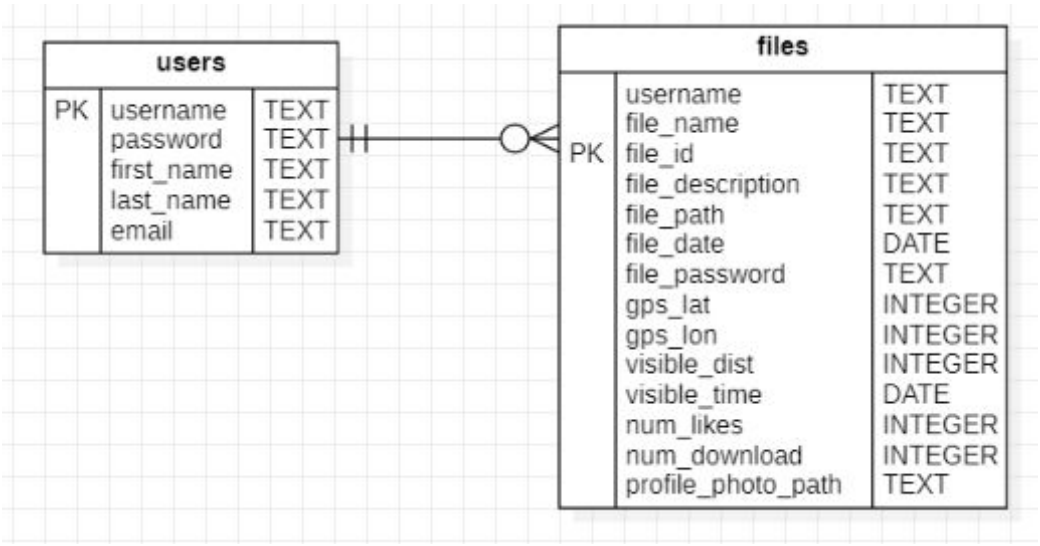

Space for fun info!
Registration Page
Log In
Upload
Download
About Us
Register
Username
Password
Sign In
Forget Password
Something goes here, about this paragraph place holder
Sign Up for Uploading Your Files
Username
Enter Username
Email
Enter Email
Password
Password
Confirm Your Password
Confirm Your Password
By checking this box, you agree to our Terms and Data Policy.
Sign up
Registration



Web Service Design

For our site, we decided to use the *Google Maps API* to handle our location mappings capabilities, such as displaying client location and the location of files surrounding the client. As a result, the data being passed back and forth between our site and the API is fairly simple. We send GPS coordinates to Google, and in return, we receive a rendering of a map centered on our client with pins dropped in the locations of various uploaded files.

Database Design



For our database, we are planning on using MongoDB, a NoSQL database. We chose MongoDB because it interfaces well with our integration layer built using Flask, and we will be able to query the database using Python (same language as Flask). Additionally, this lets us run our whole system in PyCharm and permits the application to be developed in Windows rather than a UNIX based environment.

Project Plan
Our Google Drive Folder
Our GitHub "Projects" Repository