Team Tails -- Max Millar, Emily Lee, Isaac Jon, Brian Lee
SoftDev1 p6 (Team 7)
Task the Second: The Plan
2018-11-21

Tailos

Explanation:

Like talos, but better.
A page for high school students (any high school) to use on a daily basis, including components such as the day's weather, a dictionary, news, and public transportation information (ex: train delays).

We will get the ip address of the user through ipapi. We will run the latitude and longitude into the traffic api to display traffic conditions near the latitude and longitude that we input. We will find weather based on the location of the city that the user's ip address is in.
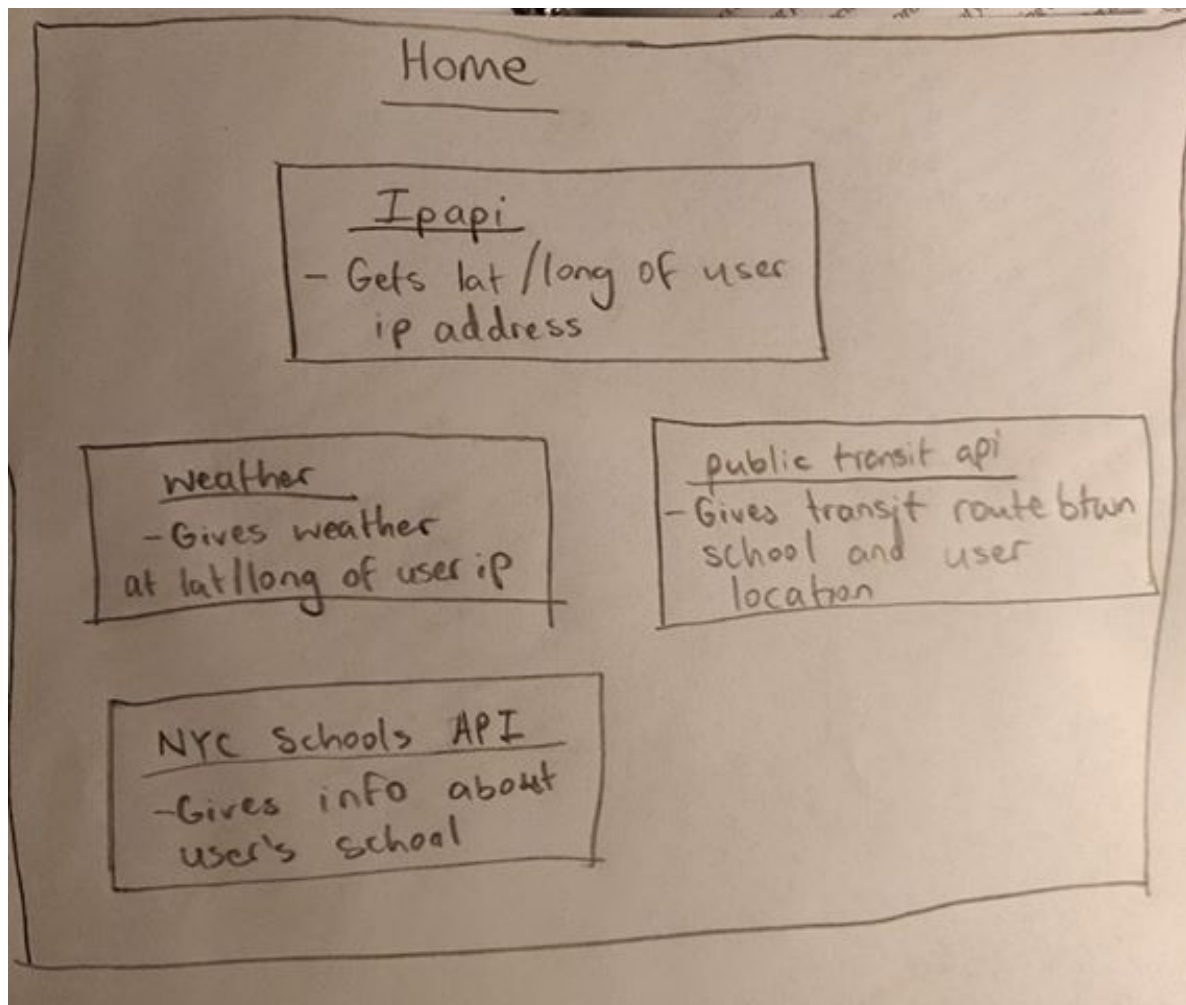
Program Components

- Authentication
    - You do not need to be logged in to access the website, but your options are more limited.
    - Register: create user and password and input your high school.
    - Login: Leads to more user targeted information, such as their school information on their home page.
- School
    - Information about your school (for logged in users only)
        - Used in other apis, such as the public transportation api for route finding.
- Weather
    - Weather shown using a weather api, based off coordinates found by the ip api.
- News
    - Daily news with links to the articles, with the titles and brief summaries shown.
- Public Transportation/Traffic
    - Lists of accidents near your area through the traffic api (location from the ip api).
    - Gives a route to and from your school (for logged in users only) using the public transportation apis.

Roles:

- Emily
  - Foundation, APIs
- Max
  - APIs
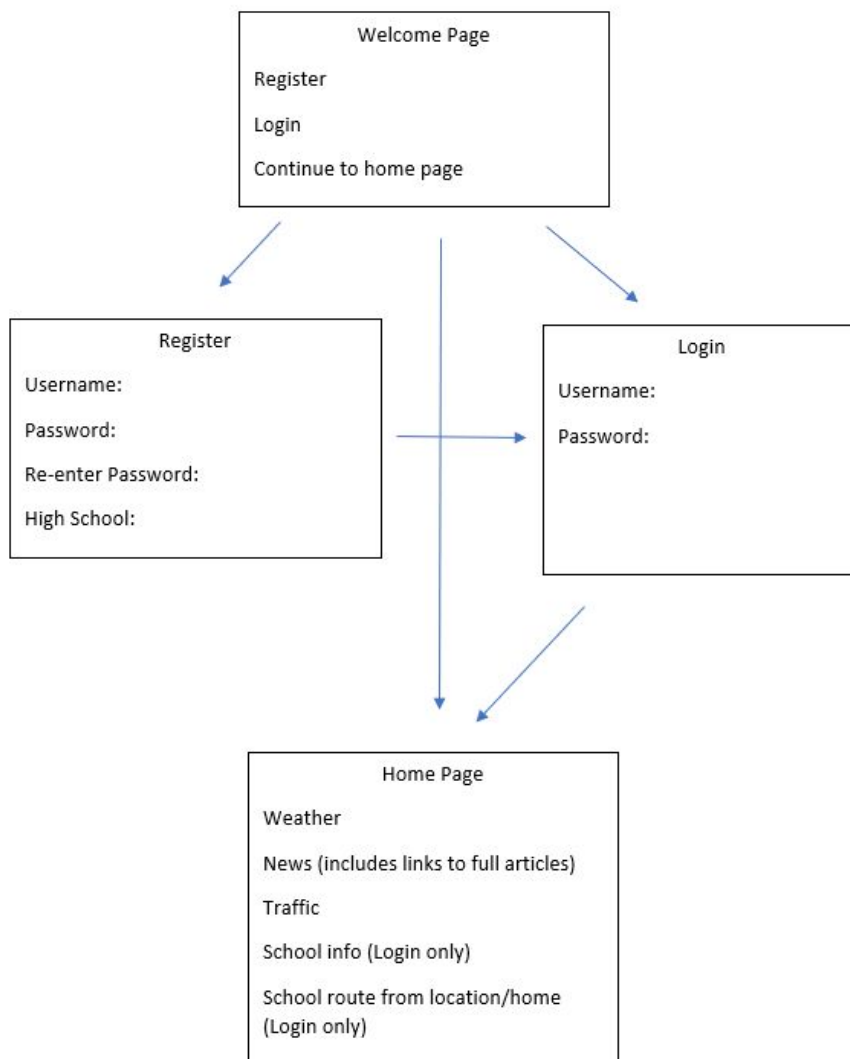- Isaac
  - APIs
- Brian
  - Authentication

Component Map

Home

Ipapi
- Gets lat/long of user ip address

weather
- Gives weather at lat/long of user ip

public transit api
- Gives transit route btwn school and user location

NYC Schools API
- Gives info about user's school

Database Schema:

login

username	password	schoolName	homeIP
TEXT	TEXT	TEXT	TEXT

Site Map:

API Links:

- NYC Schools: https://data.cityofnewyork.us/resource/g2qs-86ey.json
- Traffic: https://developer.mapquest.com/documentation/traffic-api/
  - Public Transportation: https://developer.here.com/documentation/transit/topics/what-is.html
  - MTA: http://datamine.mta.info/
- News: https://newsapi.org/
  - New York Times: https://developer.nytimes.com/
  - Top Stories: http://developer.nytimes.com/
  - Guardian: https://open-platform.theguardian.com/documentation/
- Calendar: https://www.calendarindex.com/
- Weather: https://openweathermap.org/api/ or https://darksky.net/dev??
- Dictionary: https://developer.oxforddictionaries.com/
- Universities List: https://github.com/Hipo/university-domains-list
- Nutrients: https://ndb.nal.usda.gov/ndb/doc/apilist/API-FOOD-REPORTV2.md
- NYPL: http://api.repo.nypl.org/
- IP: https://ipapi.co/