Prince George's County Health Finder

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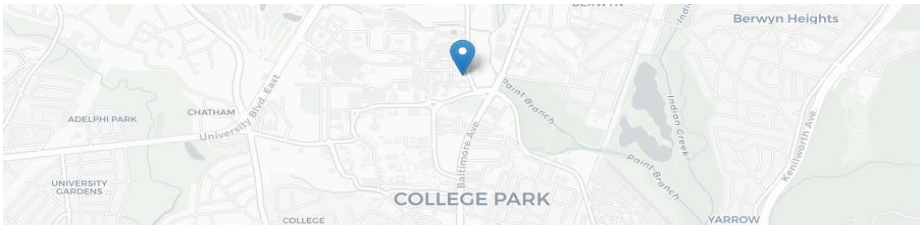
Link to PGHF: http://i377project.herokuapp.com/

Information Problem	Prince George's County experiences a great deal of tourism and visitors every day, as a suburb of the District of Columbia, as well as being home to the University of Mryland, College Park. With such a large number of out-of-county visitors, there is a lack of knowledge of the area.
Stakeholders & Target Browsers	The location of medical services is often unknown to visitors, those who work and/or go to school in or around PG county, as well as residents, both permanent and temporary. Our app will ideally be used as a mobile application but is also capable of being used on a desktop device.
Data Source	We used the Prince George's County Open Data API's hospital dataset. https://data.princegeorgescountymd.gov/Health/County-Hospitals/9r2z-mnpp



Strategy

- Stored API response remotely in a SQLite3 database
- Converted user address to geo coordinates (latitude and longitude)
- Queried database to retrieve all geo coordinates
- Calculated distance between user location and each hospital
- Queried database for record containing the geo coordinates with the smallest distance from user
- Employed Leaflet to plot markers for user and hospital location on a map

Addressing the Information Problem

PGHF provides a map, along with contact information for the closest medical facility to the user, which include:

- Address
- Telephone Number
- Website

Challenges

As first time JavaScript developers, we encountered quite a few challenges.

Coordinating Pushes & Pulls through Github

Though we had been using Github Pages throughout the semester, this project was our first coordinating pushing and pulling from a repository with our students. This required clear communication and scheduled work periods.

Using Heroku

Syncing Heroku to our server was a feat in itself. Any minute change to the server file could break the connection.

Employing SQLite3 in JS

In order to store our data remotely, we used SQLite3 to create a database. Doing so required the facilitation of a lot of dependencies. It also meant that we had to write even more code, to incorporate the proper SQLite queries.

Future Work

- Expand data source to incorporate Police & Fire Stations
- Focus on mobile applications capabilities
- Accept geolocation as the user input
- Calculate distance with routes in mind, incorporating real time traffic information to facilitate navigation

Connecting with Our Code

Github Repository: https://github.com/michaeloduyebo/377Project