**Project Description**

**Background:**

An interactive map web tool for UGA SNAP-Ed to locate eligible outreach sites and show qualification results.

**Data**

|  |  |
| --- | --- |
| Data | Source |
| 2017 Free and Reduced Meal School Data | Georgia Department of Early Care and Learning |
| Tract level poverty data in Georgia | US Census Bureau |
| Promise zones in Georgia | US Department of Housing and Urban Development |
| Strike Force zones in Georgia | United States Department of Agriculture |
| Congressional District | US Census Bureau |

**Programming language**

HTML, JavaScript

**Open Source Tools**

***Leaflet.js***

A open-source JavaScript library for mobile-friendly interactive maps.

<http://leafletjs.com/index.html>

***Leaflet-pip.js***

A [Leaflet](http://leafletjs.com/)-friendly API for [point in polygon](http://en.wikipedia.org/wiki/Point_in_polygon) operations, using [substack](https://github.com/substack)'s [point in polygon](https://github.com/substack/point-in-polygon) library.

<https://github.com/mapbox/leaflet-pip>

***Autolinker.js***

Utility to Automatically Link URLs, Email Addresses, Phone Numbers, Twitter handles, and Hashtags in a given block of text/HTML.

<https://github.com/gregjacobs/Autolinker.js/>

**Functions**

1. Basic map manipulation: zoom in, zoom out, pan

2. Layer controls: A layer control icon allow users to switch different layers

3. Popup: Allow pop ups for each layer by clicking

4. Info: A window showing qualifying information on the right of the page

5. Geo locator: A text box allows user-input address with auto-complete feature; geocode and add markers of user-input address; update the qualifying information of under-input address on the Info window.

6. Search: A search box allow users searching by name of the site to determine whether the site exists in the current sites database.

Database

Server

Front End

HTML+CSS

JavaScript

Data

Request

rEQUEST

Apache+TOMCAT

Data

My SQL