

Project 1: Gazetteer

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Overview

My goal is to build a responsive interactive map that end users can use to search and retrieve geographical data, overlaid on top of the map. Data layers will include at a minimum:

- Country name
- Capital city
- Population
- Currency / & exchange rate
- Current weather / weather forecast
- Wikipedia links

Basic features will include automatic retrieval of user location upon accessing of the app, with initial data set to that location. This will also display country borders set to this location. Once the user's location is established the coordinates will be sent to a variety of APIs to retrieve data on their location.

Technologies

I plan to achieve this with the following technologies and resources:

- HTML
- CSS
- Bootstrap
- JavaScript
- jQuery
- PHP

Resources

Due to my previous experience using it, I will attempt to rely on GeoNames as my primary third-party API data source. I have also identified Rest Countries as another simple and easy to access repository of data. Country Layer is another useful tool for data that I cannot obtain from GeoNames. Open Cage is also a resource I plan to use by passing the user's coordinates to pinpoint data.

I also plan to use the Leaflet JavaScript Library for basis of my map.

Design

My application will be focused around a single-page responsive design. I will be building with Bootstrap to ensure an easy responsive design.