



Mobile App

The image presented on the left will be the basic design of the apps interface. I will explain the basic functionality and then go onto further explanation below.

Initially when the app loads there will be a preloading screen, to load the app in the background, during the preloading proces the app will determine the current location of the device using the Javascript navigator command.

Using various API's the information displayed in the modal will be preloaded before the preloader ends.

Once the preloader is finished the user will have a map in the background showing the country they are located in, a modal will pop up at a higher z-index than the map. The drop down where users can pick other countries directly from to view other countries information, will be autopopulated with their country.

The user will be able to see information regarding the country or region in this case. This will include population, capital city, the flag, wikipedia link, weather and currency / exchange rates.

There will also be an another optional feature where they can input a postcode of the selected country or region, which will automatically close the modal and pinpoint the postcode on the map when clicking the "GO" button.

The user has the ability to close the modal at any time, and reopen using the "Open Info" button at the top.

How it will function

The file countryBorders.geo.json will be resposible for returning the ISO code for the users current location, and for when the drop down change event fires once another country is selected. The <select> list will also only be populated from countrys or regions that are inside this file.

HTML and CSS will be used to contruct and style the app including the modal.

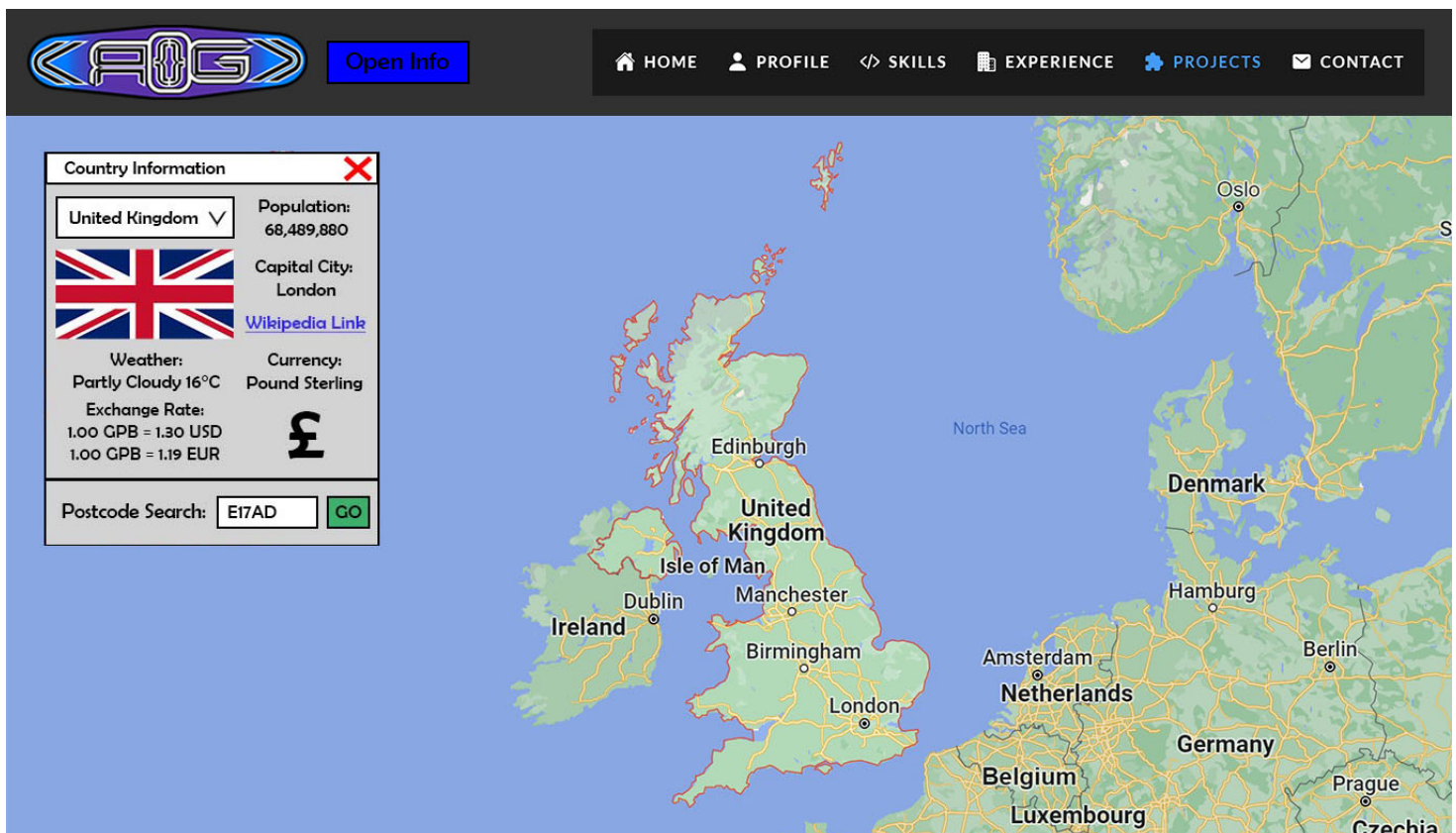
Javascript will be used to find the users location and to open / close the modal on users request.

jQuery / AJAX and PHP cURL will be used in conjuction on page load, onchange of the <select> list – both for the population of the information. And when the postcode is entered and "GO" is clicked to return the longitude and latitude coordinates onto the map.

API's that will be referenced inside the relevant PHP files will be as follows:

Open Cage, Open Weather, Geonames, Rest Countries, Open Exchange Rates.

I will add any interesting data or functions if I come across them through development.



Desktop App

The desktop app is presented in the image above. This will be a complete replication of the mobile app but made to fit the users browser size.

How it will function

It will function in the exact same way as the Mobile App. The only difference will be CSS media queries will be used to resize some elements.

CSS media queries will be used to expand the size of the map to extend across the current browser width. Bootstrap CSS classes will be used to expand the navbar. CSS will also be used to float the modal to the left of the browser.