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08 Nov 2022

Cart451

### Prototype written report

The goal of this project was to create a project that visualizes the big number of refugees and, more importantly, to raise awareness of psychic numbing. The numbers we see on the screen are more than just numbers. They are stories, people, families, and houses that have been left behind. The project will include a few tabs, a map page, refugee stories, and an informative page. The map is a heatmap of all refugee data collected by the UNCF over the last 21 years. Bringing all of the data together to create the heat map is a way of visualizing the numbers we hear in the media, as well as becoming informed and aware of where the majority of the refugees are coming from and where they are going.

I was able to choose which technology I wanted to use for implementing the map during the project's development stage. After extensive research into APIs such as Google Maps or other softwares such as [Carto](#) or [mapbox](#). However, I discovered [leaflet](#) to be the best fit for this project because it is a JavaScript library that allows me to interact with my own data and has a wide range of design maps that I could use. For example, I can still use Google Maps, but I also have the option of adding NASA's maps.

What is now complete is the implementation of the map, as well as a few features for changing the basemap. The user can choose between a grayscale map, satellite imagery during the day, and satellite imagery at night. I wanted to include those options so that users could enjoy the website more and feel more interactive. Because I have not yet implemented the data on the map, the other two features, the ability to select the country of origin of the refugees and the year, are not functional. Later on, I may add more features for specificity.

I also looked into refugee data and decided to only use UNCF data because it is the most trusted. It is also very well published, and users can download data with specific queries based on their needs. Though many refugees remain undocumented, I am still investigating how to obtain more information about them.

## Appendix:



