CSC 805 - Data Visualization Visualization Project - Phase 2

Jijeong Lee, Parth Panchal, Mark Kim

October 12, 2023

Wireframe

The visualization will be organized with a home page and four visualization pages as can be shown in Figure 1. The first page will be our landing page, with the second page being the overview of the data we will be presenting. The second page will show charging infrastructure information, followed by EV adoption trends, with the final page showing in-depth city analyses.

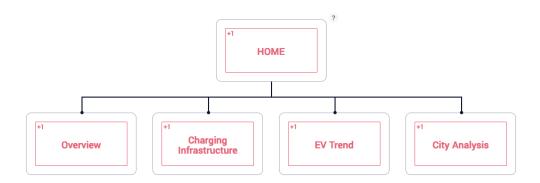


Figure 1: Page Organization Tree

Our home page shown in Figure 2 will contain a short description of our data, our visualizations, and direct the user to the information they are seeking. Finally, the home page will let the user know the purpose of our visualization.

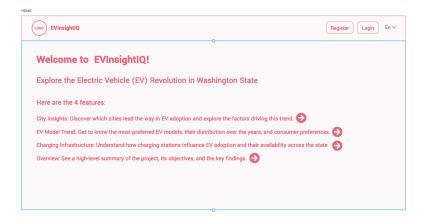


Figure 2: Home Page

The first actual visualization will be our overview. This page (Figure 3) will give a broad understanding of the current number of EV's registered, charging stations, and trends in growth of both. Likewise, we intend to include correlations between these statistics in Washington State and other states in the US where data is available.



Figure 3: Overview

The second set of visualizations will provide a much deeper look into charging infrastructure. Placeholder text for Figure 4

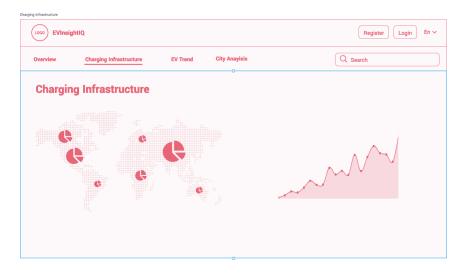


Figure 4: Charging Infrastructure

Placeholder text for Figure 5 Placeholder text for Figure 6

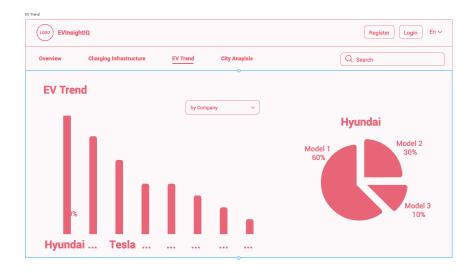


Figure 5: EV Trends

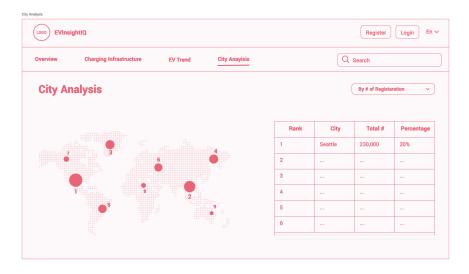


Figure 6: City Analysis

Data

Preprocessed and Cleaned

GitHub Repository of Data

Source

Washington State Electric Vehicle Population Data

Alternative Fuel Stations By State (Updated 10-12-2023)

Washington State EV Laws and Incentives

EV Registration Data By State (This is a massive data set and requires further cleaning and integration):

1. California	5. Maine	9. New York	13. Texas
2. Colorado	6. Minnesota	10. North Carolina	14. Vermont
3. Connecticut	7. Montana	11. Oregon	15. Virginia
4. Florida	8. New Jersey	12. Tennessee	16. Wisconsin

Technologies

We will be using Tableau to build our visualization system.