The Impact of Quality of Life on Infectious Diseases

Project Members

1. Liew Kuan Yung 1191301064
2. Chua Bing Quan 1181303556

Proposed Dataset

Dataset Description: Infectious Disease Cases by County, Year, and Sex, 2001-2014
Link: https://data.world/health/infectious-disease-2001-2014

Dataset Description: Behavioural Risk Factor Data: Health-Related Quality of Life (HRQOL) 1993-2010
Link: https://data.world/health/health-related-quality-of-life

Project Description

This project is intended to analyse the relationship between infectious disease and quality of life. What makes infectious diseases dangerous is their ability to spread. The chances of occurrence of a pandemic due to infectious disease might have a high correlation with people's lifestyles. This project aims to identify how people's lifestyle, more specifically, in California and its infectious rate.

The data contained in the respective dataset is

Infectious disease
- The number of occurrences of each disease
- Population and rate of disease per 100,000 population

Health-Related Quality of Life
- Rating of a healthy day

Both datasets have other dimensions such as gender, age, year, the county as well.
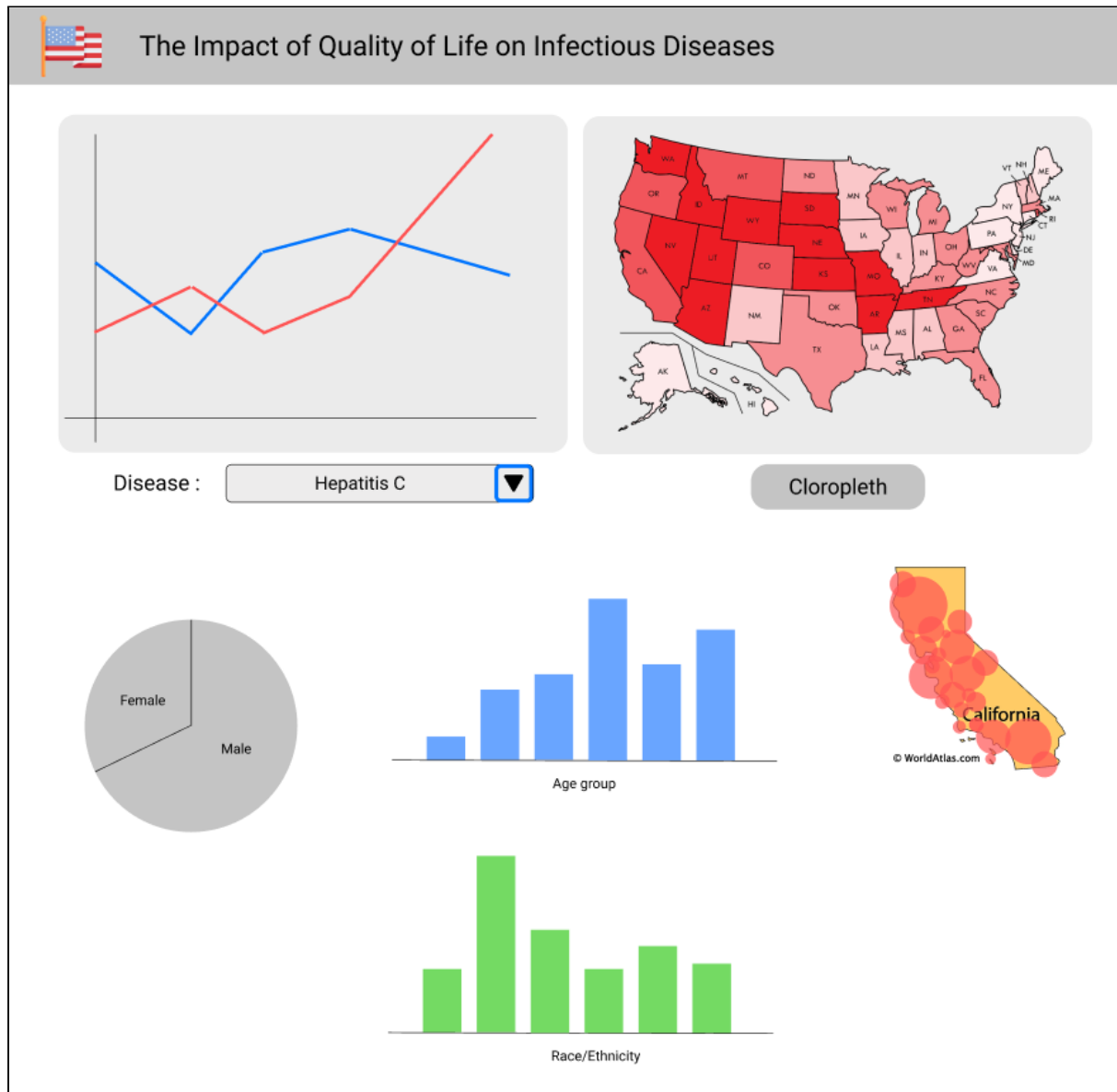
Storyboard

Figure 1: Landing Page

Figure 1 shows the landing page of our website. Firstly, when a user opens this website, they will be briefed with the overview of infectious ratings of the US in the years 2001 to 2014. Users will be able to interact with the dashboard by clicking on the drop-down to select a specific disease to view its statistics.
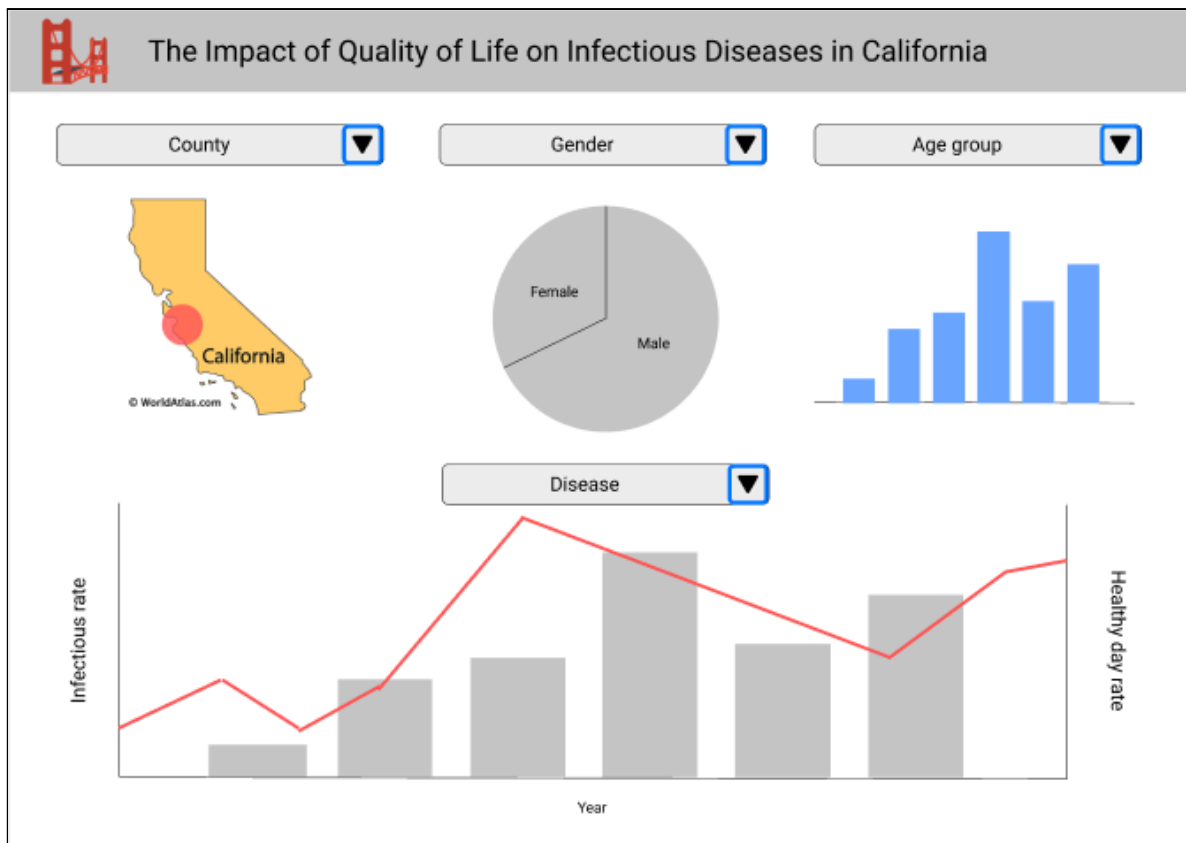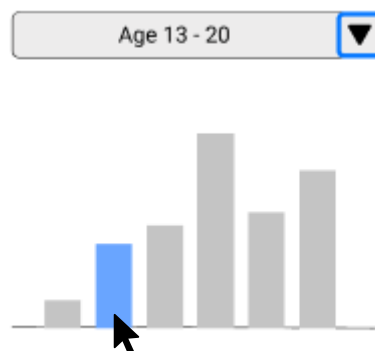
Figure 2

Figure 2 shows a more focused data visualisation on one of the states, which is California. From this page, the user will be able to select a specific county, gender set, age group and a specific disease to view the infectious rate of disease and healthy day rate over the year.

The dropdown shown in figure 2 is intended for users to select and filter based on county, gender, age group or event time frame. Figure 2.1 shows the UI of the selected category.
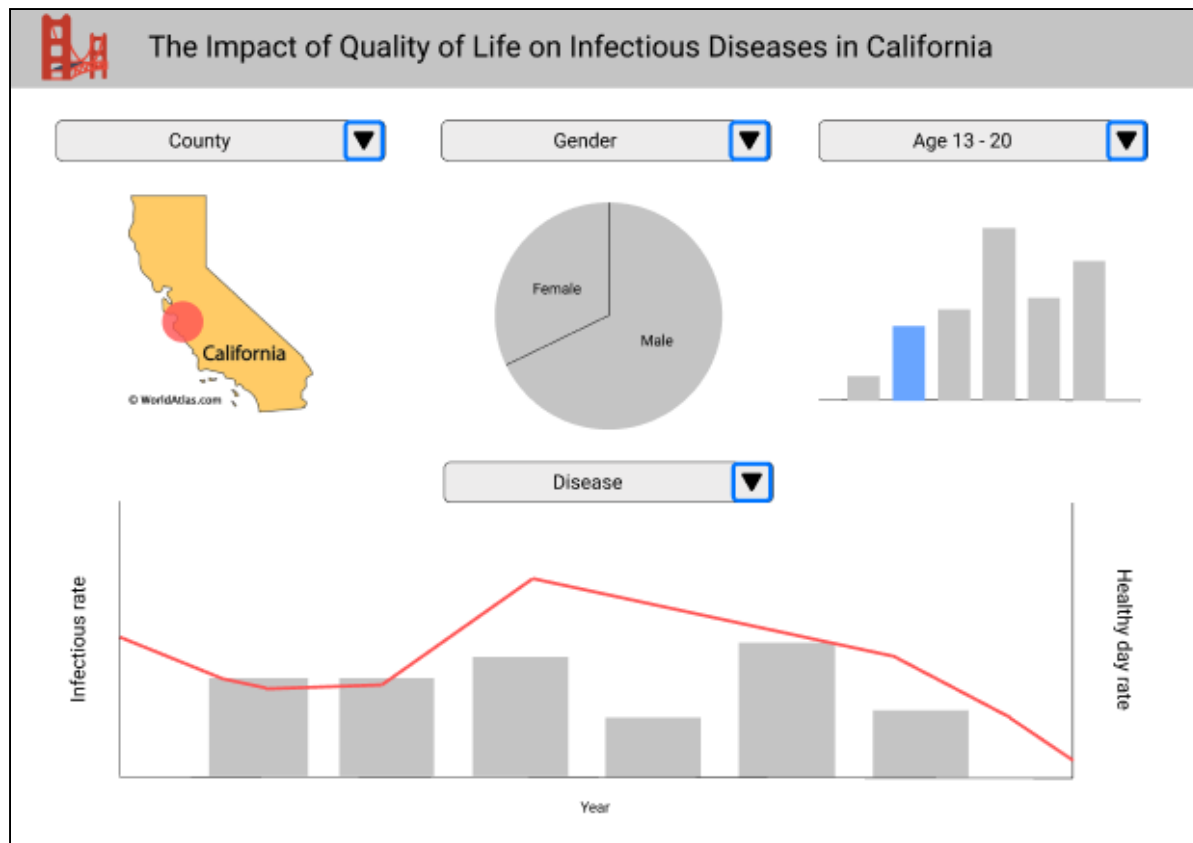
Figure 2.2

Figure 2.2 shows the updated visualisation after selecting a specific drop-down.

This analysis serves the purpose of helping healthcare experts to better understand the correlation between infectious disease and quality of life. They are different categories that could be potentially being added. By understanding the relationship between quality of life and infectious disease it helps prevent the possibility of a widespread epidemic and make us more prepared.

The end. Thank you for reading.