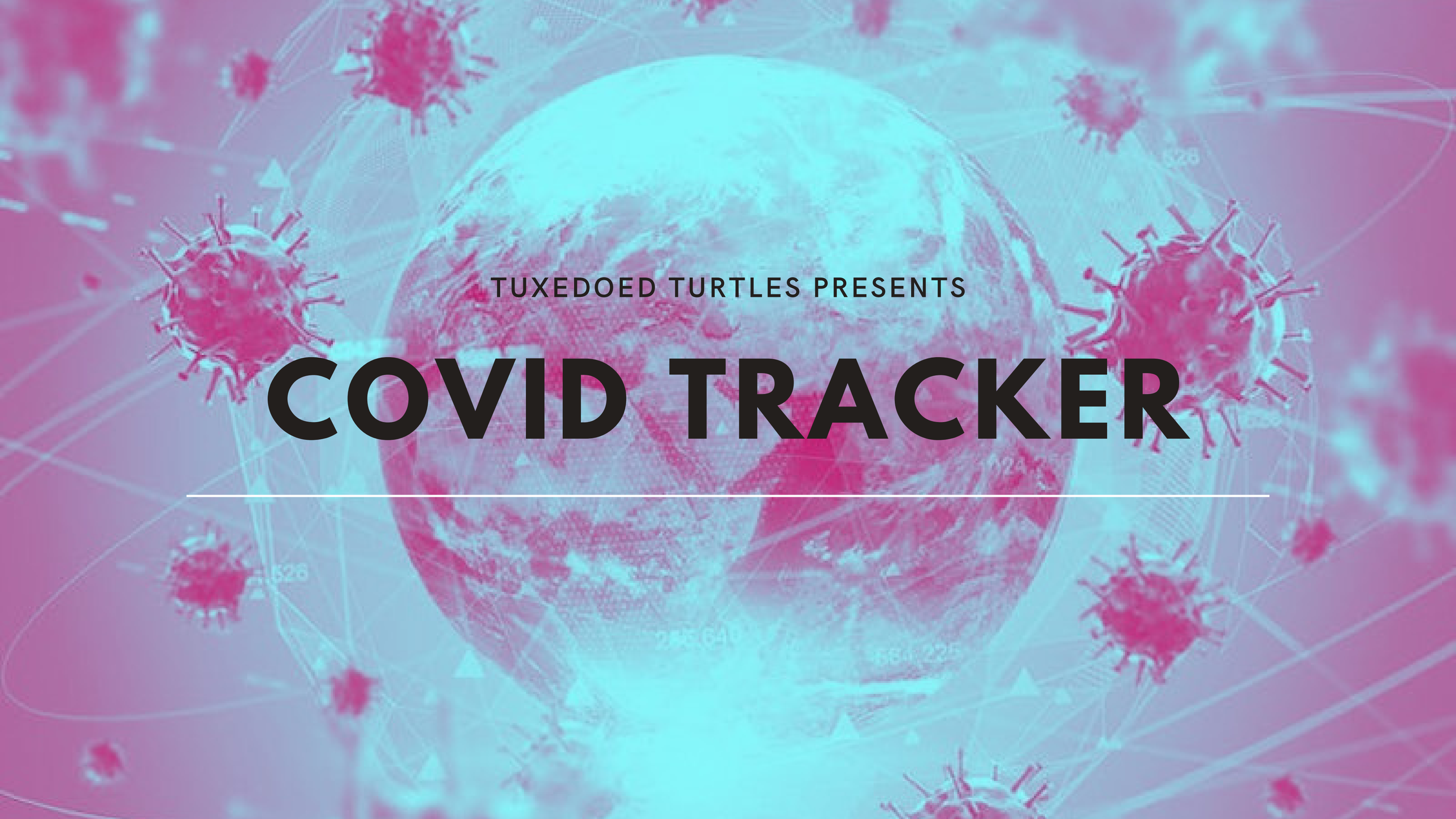
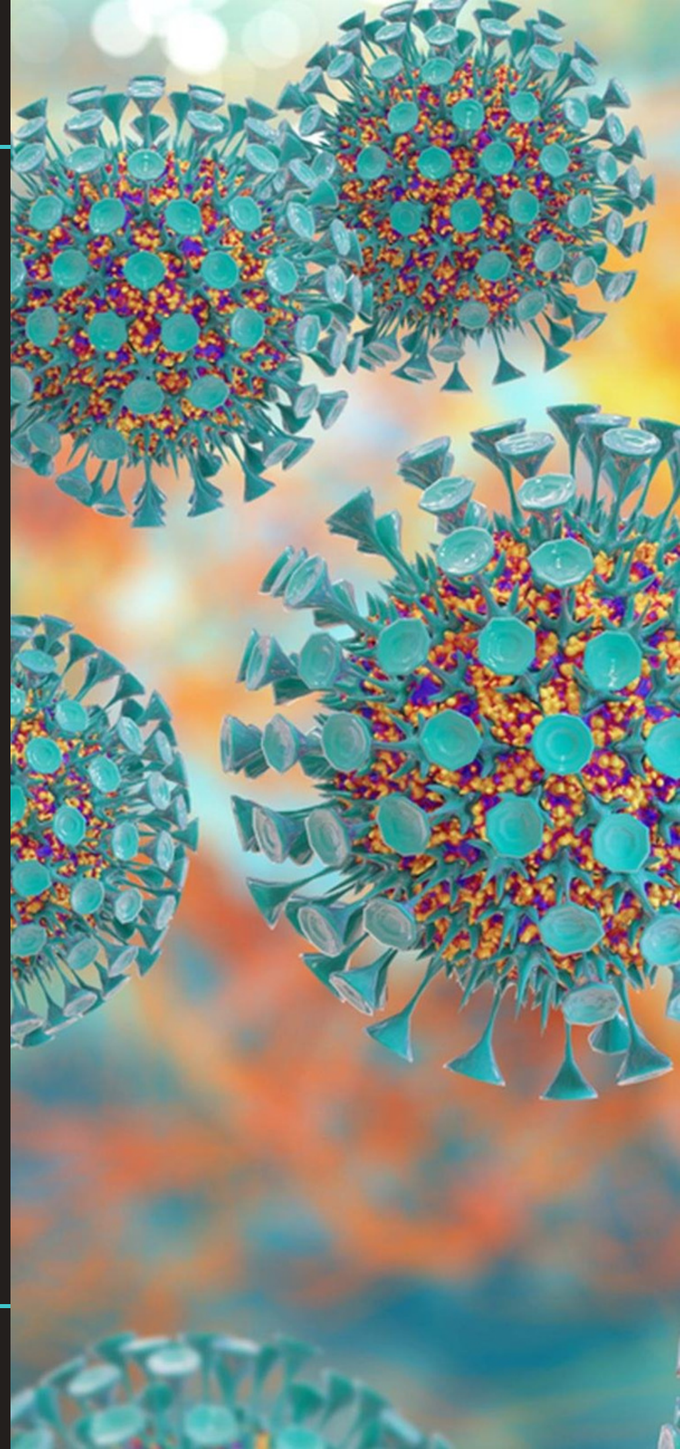


TUXEDOED TURTLES PRESENTS

COVID TRACKER

DESCRIPTION

Our application allows users to visualize COVID-19 positivity rates in any city around the globe! Users can also self report their own positive diagnosis, adding their own relevant personal information to the database as well.



MOTIVATION

We wanted to visualize COVID-19 infection rates on an interactive map to inform curious and concerned users.

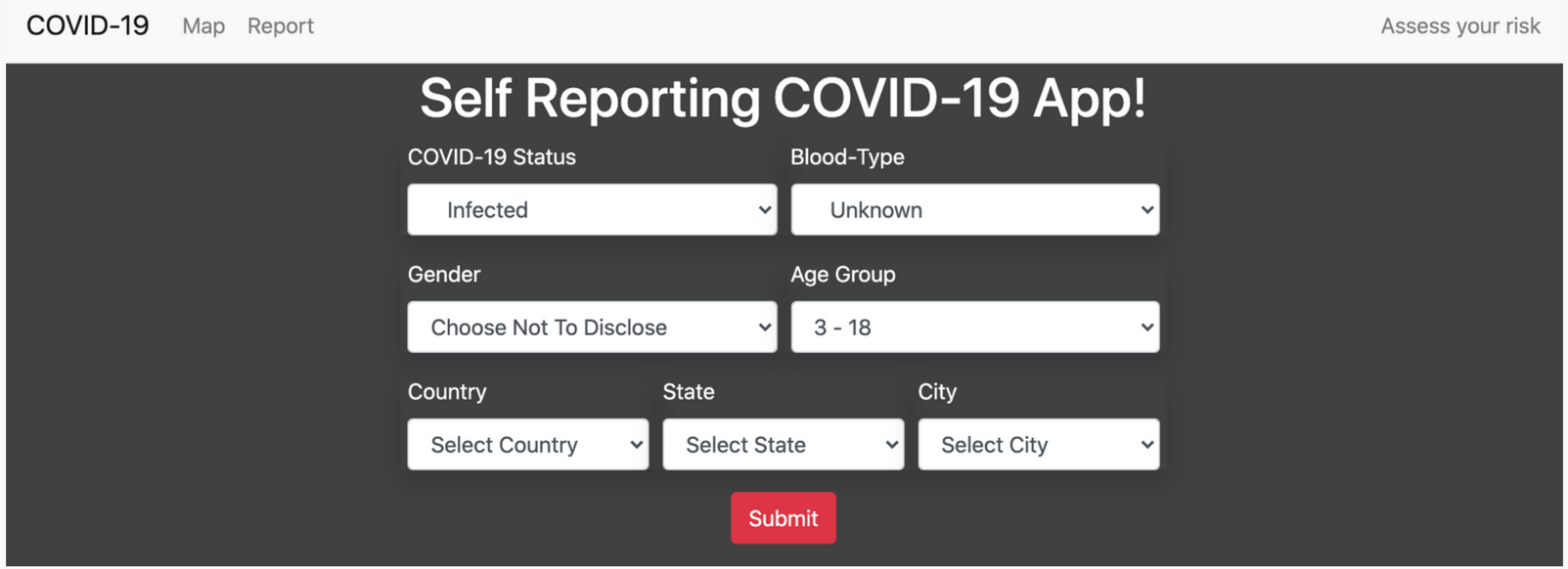
USER STORIES

1.
AS A concerned user
I WANT to be able to quickly visualize positive COVID rates in my city
SO THAT I can make an informed decision about whether or not I should ever leave my house again

2.
AS A person who has tested positive for COVID-19
I WANT to report my infection, and add my personal information to the database
SO THAT others can be informed via the COVID Tracker map

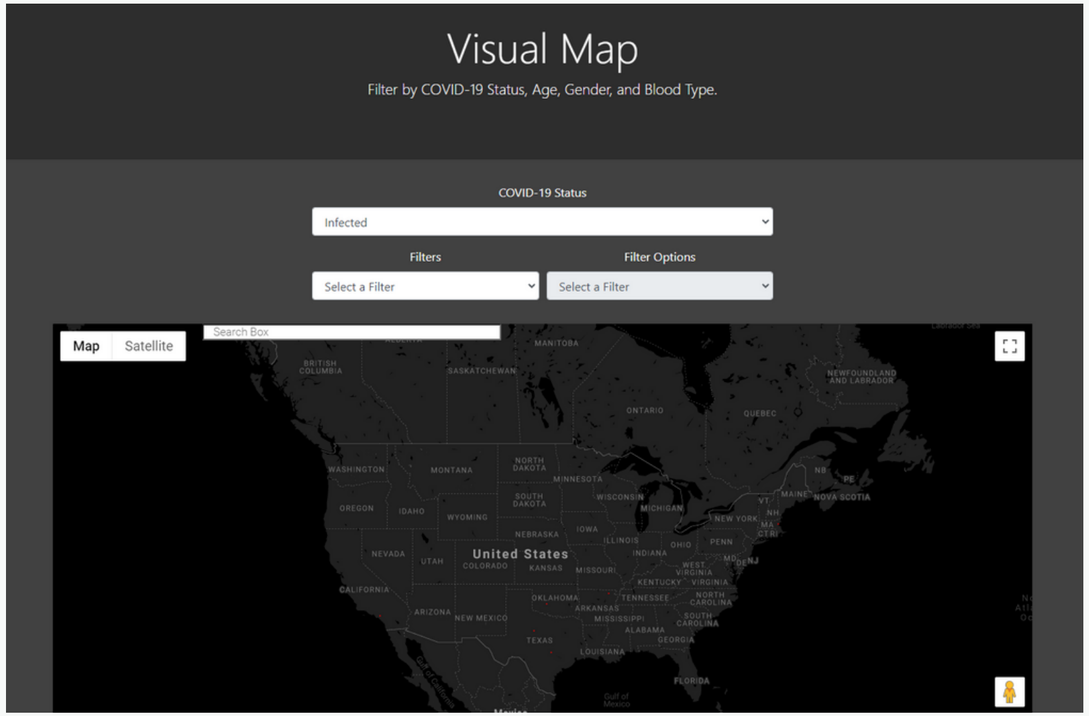
SELF REPORTING FORM

Our application begins with a simple COVID self reporting form which prompts the user for their blood type, age group (3-18, 19-29, 30-39, etc.), gender, and most importantly location (city, state, country). This information then gets stored in our MySQL database.



VISUALIZE

The user can then navigate to the ‘Visualize’ page which displays a google map with all the compiled data from our database to show the user how many positive, negative, or previously infected cases of COVID-19 have been reported in any given city around the world. The user can also select from a series of filters to display the number cases based on gender, age, blood type, and case status.



TEAM EFFORTS

BACKEND FIRST

We decided to primarily focus on the backend development at the beginning of the project to be able to set up the basic functionality of the application before delegating Handlebars, CSS, database polishing, and presentation materials among our group members.

INDIVIDUAL RESPONSIBILITIES

Brett Boggs

Handlebars Templates, CSS, Idea contributions

Santiago Castaneda Munoz

Backend Development, Javascript, idea contributions

Emmanuel Durand

Seeds, Database user generation (CSV), idea contributions

Marshall Lowry

Readme, Presentation, CSS, Idea contributions

CHALLENGES

- Utilizing the Google Maps API to display our data was a small challenge at first, but the documentation was clear and instructional
- Limiting our scope to cities rather than something smaller like neighborhoods or zip codes was challenging, but being able to display info for most cities in the world seemed to be sufficient for a demonstration

IMPROVEMENTS

- We created fake user data in order to demonstrate the functionality of our application. Obviously, we would want the database to only be filled with data from real users in the future so that it’s an accurate representation of the pandemic

- We limited our scope of user location to cities, and in the future we would like to get location data scoped to something smaller such as zip codes or neighborhoods—this could open up the possibility of using heatmaps to show positivity rates by specific areas within a city

CREDITS

- Project Repository Link: https://github.com/SCastanedaMunoz/Project-2
- Application Link: https://tuxedoed-turtles-project-2.herokuapp.com/
- Google Maps API: https://developers.google.com/maps