**Travel Tool Weekly Report**

Week of 2-26-21

By Rudolph Hanzes, Gregory Bittinger, Kaleb Piper, Jacob Johnson, and Robert Minerd

**Summary**

This week, our group worked towards implementing multiple API’s, as well as attempting to grab what data is requested and returning it to the user. We also worked towards adding a distance matrix API into the website that will return the distance and length of time to travel between two locations if the user chooses to travel by car.

**What Was Accomplished Last Week?**

* Work was put towards accepting user input and sending it to the flight data API, retrieving the desired data from the given input, and displaying the retrieved data to the user.
* Began to implement the distance matrix API. As of right now its hard coded to the distance between Pittsburgh and Cleveland, but correctly displays the amount of time and the distance between the two cities.
* A drop-down data list was added to the website for the user to select different airports, but it will likely be used in other places on the site.

**What Problems Were Encountered?**

* Problems were encountered getting the return data for the flight data API, such as formatting it correctly, pushing the data to functions, and getting the data to display.
* Initially, passing user data and appending them to the Flight data API URL was an issue, but was resolved later in the week.

**Team Progress Alignment with Gantt Chart**

We are currently aligned with the Gantt chart, specifically in the sections of sending data to appropriate functions and collecting web data. Collecting web data properly will continue through to the end of next week, then we will focus on user interface design.

**Plan for this Week**

This week the plan is to finish implementing the Flight data and Distance Matrix APIs. We will investigate returning more options for the flights and will also be looking for and adding the beginnings of an accommodation API, to find places to stay for the user.

**Member Contributions**

* Rudolph Hanzes: Rudy developed a data list filled with cities and airport codes for users to scroll through or type to find their specified Airport. Assisted with research for pulling data from the API and displaying to the user on the web page.
* Greg Bittinger: Greg researched API integration as well as sending user input data as parameters to append to the API URL. He also researched and worked on methods of displaying the JSON Objects returned from the APIs.
* Jacob Johnson: Jacob implemented the Distance Matrix API which returns the distance between two locations as well as the amount of time it takes to drive from one place to another. He also made adjustments to pass the user input data into JavaScript functions.
* Robert Minerd: Robert helped work on and research how to fetch and display JSON data from the API onto the website. Also helped put together the presentation for the week.
* Kaleb Piper: Kaleb put together the weekly report as well as the presentation and helped to research methods of storing variables into functions and other documents for later use.