

EE / CprE / SE 491 – sdddec23-11

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Week 10 Report

04/17/2023 – 04/30/2023

Client: Dr. Bigelow

Faculty Advisor: Dr. Bigelow

Team Members:

Christian Boughton – Team Member

Daniel Chrisman – Team Member

Ella Knott – Team Member

Lith Almadani – Team Member

Michael Wieland – Team Member

Summary

This week our team calculated the cost of testing this application using the Google Maps APIs. The cost was determined to be detrimental, leading to a change in the APIs we will be using. Much of the time has been spent researching API call costs from different platforms and testing to see if the functions would be viable.

Past Week Accomplishments

- API changes
 - Radar distance matrix API - calculate drive time between two+ points
 - Radar autofill API - Input bar autofill with known addresses
 - Radar coordinate translation - turn readable addresses into coordinate points
 - Google Maps Suite - Generate and display the heat map
- The switch from Google Maps's APIs to Radar APIs will allow the project to remain viable throughout testing and require a much smaller overhead after being deployed. The API calls for the Radar platform are nearly identical, offering a price and simplicity benefit while accomplishing the same tasks.
- Minor website adjustments were made to improve scalability across devices. This consisted of setting sizes to a VH/ VW scale instead of pixels.

Pending Issues

- Functionality is severely limited without the inclusion of the APIs

Individual Contributions

<u>Name</u>	<u>Contributions</u>	<u>Hours this week</u>	<u>Hours cumulative</u>
Christian Boughton	Researched available APIs. Planning and design.	8	61
Daniel Chrisman	Planning and design	8	58
Ella Knott	Set up an initial meeting with the client. Planning and design.	8	57
Lith Almadani	Planning and design	8	58
Michael Wieland	Planning and design	8	58

Plans for the Upcoming Week

- Add functionality, including the API calls.