EE / CprE / SE 491 – sddec23-11
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Week 3 Report

02/13/2023 – 02/19/2023
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

The overall objective for this week was to determine the websites structure and functionality as well as narrow our list of possible tools.

Past Week Accomplishments

- Third client meeting canceled due to inclement weather.

- Continued research for APIs, dev tools, hosting platforms:
    - APIs:

        - Google Maps - Distance Matrix API:
            - Gives the travel distance and time for matrix of origins and destinations.

        - Google Maps - Geocoding service:
            - Converts street addresses into longitude and latitude coordinates.

        - Zillow group - MLS listing API:
            - Gives access to the listing database of the homes on Zillow.

        - Google Maps - Vizulization layer API:
            - Allows us to create heat maps with the distances a user enters.

        - Libaddress input tool (on GitHub):
            - Helps collect and handle addresses.

        - Datafinity
            - Alternative to Zillow API, allows the same to greater access of real estate information
    - Development (Front and Back end):

        - Angular

        - Ruby on Rails

- MySql

- PHP

- ReactJS

- Hosting:

    - Google Cloud Hosting Service

    - Infinity Free

    - Azure DevOPs

- Began exploring new website creation style where all calculations take place on the front end. This style is to ensure functionality of our project before additional steps are taken.
- Created the initial git repository. It currently contains documentation that the team has completed.
- Requested Lsiting data API form Zillow

Pending Issues
- Acquisition of a hosting platform for the website
- Test relevant APIs for the integration of location and realty services

Individual Contributions

Name	Contributions	Hours this week	Hours cumulative
Christian Boughton	Research, planning and design	6	21
Daniel Chrisman	Research, planning and design	6	18
Ella Knott	Research, planning and design	6	17
Lith Almadani	Research, planning and design	6	18
Michael Wieland	Research, planning and design	6	18

Plans for the Upcoming Week
- Test hosting platforms
- Continue testing the APIs
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