

EE / CprE / SE 491 – sddec23-11

HOME FINDER

Week 1 Report

01/30/2023 – 02/04/2023

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 gain clarity on the expected operation and functionality of the project from the client and begin the planning phase of its creation. This week our team has outlined the application and started research on relevant tools and platforms.

Past Week Accomplishments

- Initial client meeting – Everyone

Purpose

-Search for ideal areas to live in based on user input and frequented locations.

What

-Web-based application accessible from PCs and smart handheld devices that generate a heat map of an area within the constraints of user-inputted locations.

LOCATIONS:

-Users can enter many locations

-Locations can be weighted by setting a maximum drive time from the original location

-Omit or identify locations outside of this area

-User-entered locations can be saved by logging into an account

-Users do not have to make an account but won't have preferences saved

-Users should be able to enter an address and view the average times to their locations

-Average times can be calculated by selecting the time of day and using traffic information

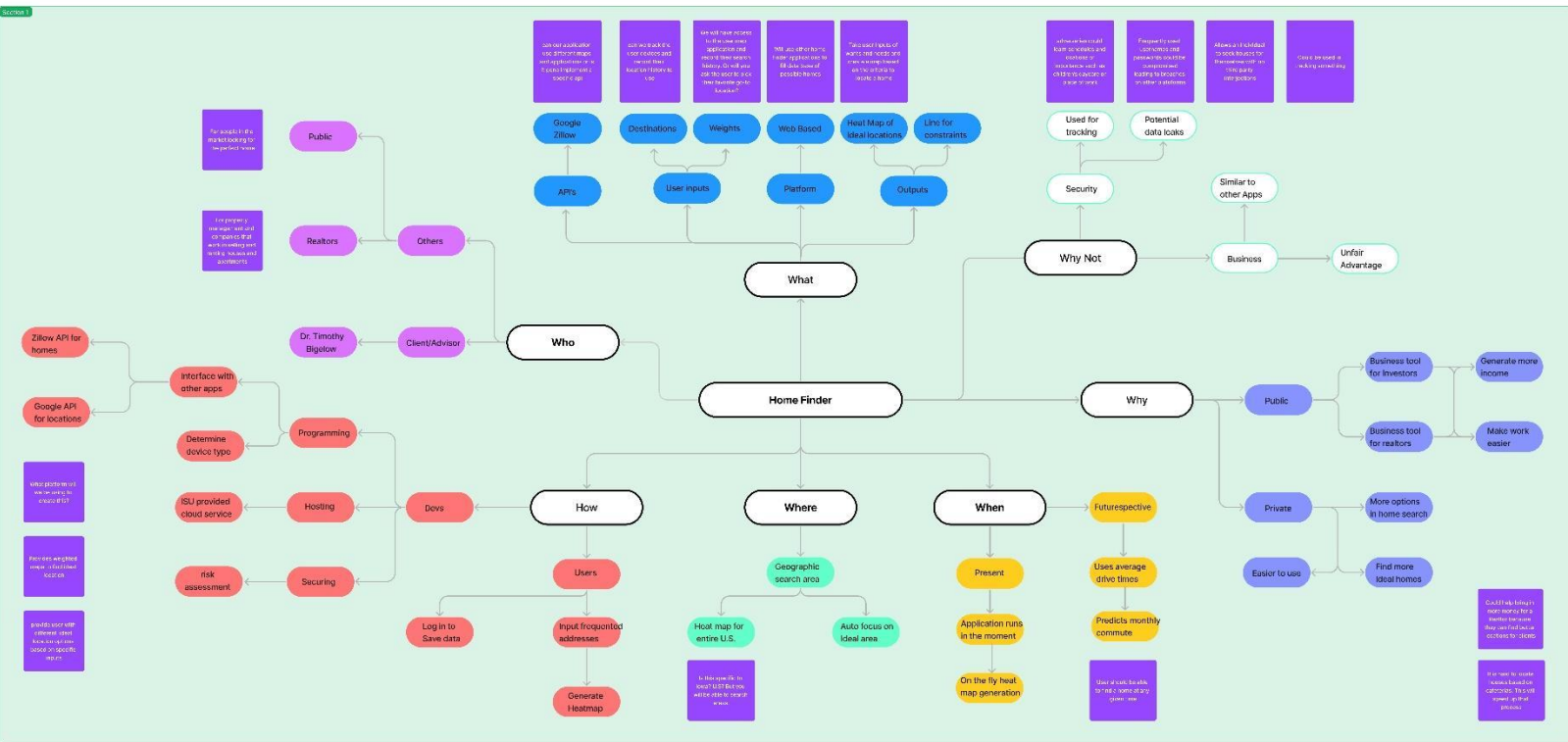
APPLICATION:

-Temperatures on the heat map are generated from monthly commute times

-Application interfaces with Zillow to suggest homes for sale inside the ideal zones

-Application can generate heat maps for anywhere in the U.S. (focus on a smaller radius encompassing all entered locations)?

- Began application planning – Everyone



Pending Issues

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

Individual Contributions

Name	Contributions	Hours this week	Hours cumulative
Christian Boughton	Researched available APIs. Planning and design.	9	9
Daniel Chrisman	Planning and design	6	6
Ella Knott	Set up an initial meeting with the client. Planning and design.	5	5
Lith Almadani	Planning and design	6	6
Michael Wieland	Planning and design	6	6

Plans for the Upcoming Week

- Secure hosting platform for the website
- Locate and test relevant APIs for Zillow and Google Maps
- Allocate specific roles to team members
- Determine programming languages and tools needed to complete this project