EE / CprE / SE 491 – sddec23-11
HOME FINDER
Week 2 Report

02/05/2023 – 02/12/2023
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 research different APIs, web hosts, and other development tools that we will use for the project. This week we have started research and have found many valuable tools that will help during development.

Past Week Accomplishments

- Second client meeting – Everyone
  - Informed the client on APIs we found, the development tools we were keen on using, and the hosting platforms that our research proved best.
  - Client had worries about:
    - The safety of user information.
    - Making sure we could get and not be reliant on the zillow access token.
    - Having realistic boundaries for the application.
  - Other meeting topics:
    - Website Domain: anyone should have access to the domain, free, can be a sub domain.
    - Focus mainly on Zillow integration, other reality service can be added in later if the scope needs to be expanded.
    - Expanding scope (if needed):
      - Add other reality sites.
      - Property tax heat map
      - Renting
      - Filters
      - Listing time

- Began 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.
  - Development (Front and Back end):
    - Angular
    - Ruby on Rails
    - MySql
    - PHP
    - ReactJS
  - Hosting:
    - ISU Hosting Services
    - Google Cloud Hosting Service
    - Infinity Free
    - Azure DevOPs

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

Individual Contributions

Name	Contributions	Hours this week	Hours cumulative
Christian Boughton	Research, planning and design	6	15
Daniel Chrisman	Research, planning and design	6	12
Ella Knott	Research, planning and design	6	11
Lith Almadani	Research, planning and design	6	12
Michael Wieland	Research, planning and design	6	12

Plans for the Upcoming Week
- Choose a hosting platform (if using ISU hosting services contact them about services)
- Start testing the APIs

- Request access to the zillow api
- Set up git and add all files we have worked on