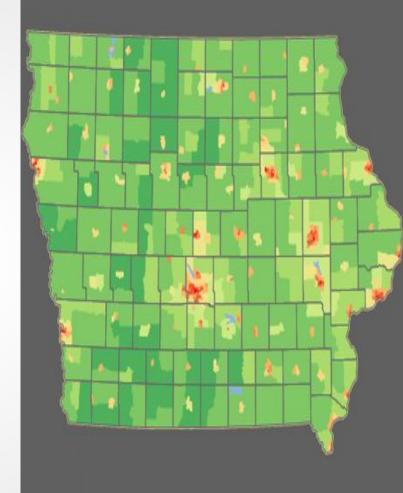


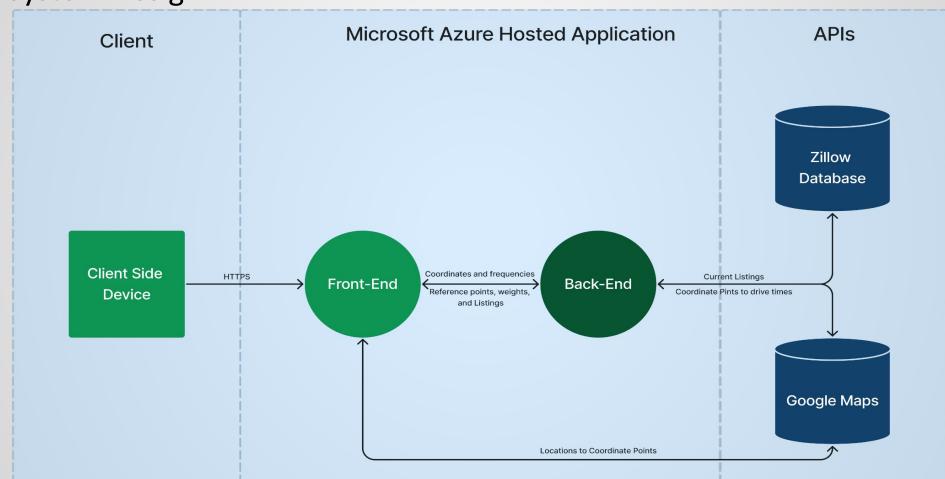
What is Home finder

Buying a home is a stressful and time consuming process with current reality applications specializing niche areas. Our application provides a single interface for each step.

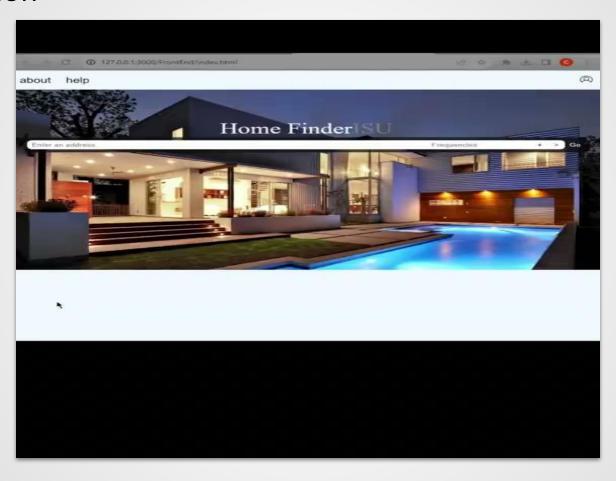
- User inputs
 - Frequent locations
 - Travel time constraints
- Heat map generation of ideal areas
- For sale homes and information
- Works for businesses as well



System Design



Demonstration



Engineering Constraints

- Small monetary fee per use limits the amount of full app testing
- Data security
 - Working with a third party server and storing passwords
 - Unable to store this information with our own encryption or security standards
- Resource constraint
 - Running on third party server and do not want to pay for increased computing power
 - Could have slow downs with simultaneous requests

Engineering Requirements

- The application will be fully accessible on web-connected mobile phones, desktops, and laptops.
- Creating a heat map based on a list of data input by users like locations, frequency, and time.
- Creating a distance calculator that takes an input of locations and calculates the distance.
- The ability to create accounts and log in to existing ones. The ability to create, save, access, and delete records.
- Ability to access a web-based browser for viewing the application
- A hosting platform will be required to display our web page and allow interaction.
- The application must be visually accessible to users, including text size, font, color contrast, etc.
- The application must be responsive to ensure operability ubiquitously across browsers and platforms.

Engineering Standards

- IEEE 802.11 ac, g, b, a,n are required for universal wifi access to our application. Because our application will process information server side to limit user resource use, this 802.11 suite of standards will be required for access
- IEEE 802.3 defines the Ethernet standard. wired or ethernet-based connectivity will be required for our application to be used by the maximum number of individuals.
- IEEE 4003. This standard defines the ability for data from constellations of satellites to be used in navigation. This is crucial to our application as the global positioning system, governed under the Global Navigation Satellite System (IEEE 4003), identifies locations, aids in calculating commute times, and provides the data necessary to create the ultimate goal of this project: the weighted heat map of ideal areas to live.

Updates since PIRM1

Frontend redesigned for ease of use and location autofill

Places API connected and functioning

Geocoding API connected and functioning

Support for User account login, signup, and account recovery added

Technical Challenges

- Setting up the database
 - Had emails regarding GIS database
 - We do not need specialization geographical visualization data
 - Confirmed with industry professionals
 - Drive times
 - User data
 - Results from the API calls
 - Distance Matrix
 - Logic for input data allowing us to generate ideal locations