RealEase: Comprehensive Real Estate Insights Platform

Milestone 3 Overview

By Donovan Murphy, Jonathan Bailey, and Enrique Obregon

Milestone Overview

- Front End Refresh
- DB Schema Improvements
- ROI Tool Implementation
- Home Comparison Layout

Milestone Three Plan

Task	Completion %	Donovan	Jonathan	Enrique	To do
ROI Tool	85%	0%	100%	0%	Implement logic into frontend and figure out how to pull information from house instead of having the user enter it all
Investigate JavaScript functions and card layout on the home screen	95%	50%	10%	30%	Continue to improve functionality and appearance
Working Website Demo's	75%	33%	33%	33%	Add a Neighborhood Insight Demo
House Comparison Tool	90%	0%	0%	100%	Improve design if needed and further logic of comparison
Flask + MERN stack & caching/geolocating users	20%	33%	33%	33%	Implementation of caching methodology and figure out whether we want to use user location to show houses in their area on launch

Task 1: Frontend Development and Home Comparison Tool

Developed a frontend heavy housing comparison feature

Successfully added the .svg logo

Task 2: ROI Tool

Created and integrated a MongoDB-based schema and logic of the ROI Tool.

Laid groundwork for how we want to display the information and the information the user will need to enter.

Task 3: MERN Stack with Flask

Implemented Flask with our main home lookup feature and are now incorporating it to enhance our ROI tool functionality.

Developed strategies to leverage Python with MERN stack for future features.

Task 4: API Research & Testing

Compared Express and Flask for backend operations.

Established groundwork for API-driven data management

Milestone Four Plan

Task	Donovan	Jonathan	Enrique	
1. Finish research and implement caching & user location usage	implement/test 20%	Research 20%	Research/implement 60%	
2. Research, planning, and implement first stages of Neighborhood Insights Tool	Design 30%	Design 30%	Design 40%	
3. Touch up existing tools and frontend with help of client	Implement 30%	Implement 30%	Implement 30%	

Task 1: Research and Begin Development on our Neighborhood Insights Tool

How can we differentiate ourselves from other insights platforms

We'll investigate the best ways to get the necessary data

(API vs Flask)

Task 2: Test Caching and User Location Data

Test caching on commonly searched locations and different caching strategies for housing data and zip codes.

By leveraging location data, we aim to show users homes in their immediate area right from the start, improving the relevance and personalization of their experience

Task 3: Touch Up Existing Tools and Full Stack Design

ROI and Home Comparison UI.

Clean Data before going into the frontend cards.

Faculty Advisor Feedback

Guidance on Data Retrieval Planning	• Emphasis on unified data pull strategies to maintain performance.
Demo Development:	• Iterative improvement based on client feedback to enhance user experience.
Front-End Design Recommendations	• Focus on cohesive brand identity and polish up the front end.

Questions?