

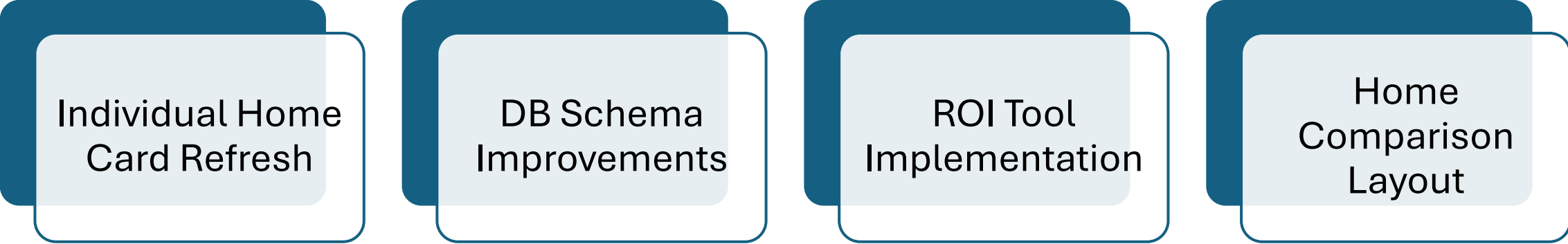
RealEase: Comprehensive Real Estate Insights Platform

Milestone 4 Overview

By Donovan Murphy, Jonathan
Bailey, and Enrique Obregon



Milestone Overview

The image shows four milestone cards arranged horizontally. Each card consists of a dark blue rounded rectangle with a light blue rounded rectangle on top. The text is centered in the light blue area. The cards are: 1. Individual Home Card Refresh, 2. DB Schema Improvements, 3. ROI Tool Implementation, and 4. Home Comparison Layout.

Individual Home
Card Refresh

DB Schema
Improvements

ROI Tool
Implementation

Home
Comparison
Layout

Milestone Three Plan

Task	Completion %	Donovan	Jonathan	Enrique	To Do
ROI Tool	85%	20%	60%	20%	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%	Fully implemented, continue refining UI/UX based on testing feedback
Working Website Demos	80%	33%	33%	33%	Add a Neighborhood Insight Demo, refine UI consistency
House Comparison Tool	90%	30%	10%	60%	Improve design if needed and further logic of comparison
Flask + MERN stack & caching/geolocating users	20%	70%	15%	15%	Implement caching methodology and determine feasibility of user location feature

Task 1: Frontend Development and Home Comparison Tool

Enhanced the frontend with Map functionality and ROI Integration

Began testing and implementing the house scoring algorithm

Task 1: Demo Image

16863 Muskgrass Dr

5.2 Average



\$779,990

4.0

Bedrooms

3.5

Bathrooms

3,066

Square Feet

\$254

Price/sqft

About This Home

Welcome to this stunning 4-bedroom, 3.5-bathroom home located at 16863 Muskgrass Drive in Winter Garden, FL. This beautiful home, situated in a desirable neighborhood, boasts 3,066 square feet of spacious and modern living space, perfect for families or those who love to entertain. The exterior features a charming curb appeal with professionally landscaped gardens and a 2-car garage providing ample parking space. Upon entering, you are greeted by a formal dining room and an inviting interior that showcases a seamless flow between the living spaces. The kitchen is a focal point of the home, equipped with high-end appliances, sleek countertops, and plenty of storage for all your culinary needs. Whether you're preparing a casual meal or hosting a dinner party, this kitchen is sure to impress. The bedrooms are generously sized,

Location



Task 2: ROI Tool



Integrated the ROI tool with existing house data to limit the amount of data the user must enter



Implemented a dynamic ROI calculator on each individual house page

Task 2: ROI Tool Demo Image

\$619,900

4.0

Bedrooms

2.5

Bathrooms

2,332

Square Feet

\$266

Price/sqft

About This Home

This stunning 3-bedroom, 2.5-bath home was extensively renovated in 2021 with over \$300,000 in upgrades too many to list! About 2332 sq. feet under air and designed for an owner-user, the property features NEW open cell spray foam insulation, a NEW screened enclosure (2024), all NEW electrical, plumbing (original main drain), flooring, and a beautifully remodeled kitchen with high-end granite. Situated on a spacious lot, there's potential to build a 600 sq. ft. auxiliary structure in the backyard. With modern updates throughout, this home is move-in ready and perfect for those seeking quality and convenience in a prime location. To protect privacy, interior photos are not available. Showings are available for pre-qualified buyers only.

Property Details

Year Built: 1958.0

Style: SINGLE_FAMILY

Stories: 1.0


Lot Size: 16,553 sqft

HOA Fee: \$0/month

Days on Market: 11

Calculate Investment ROI

Location



Listed By

James T. White

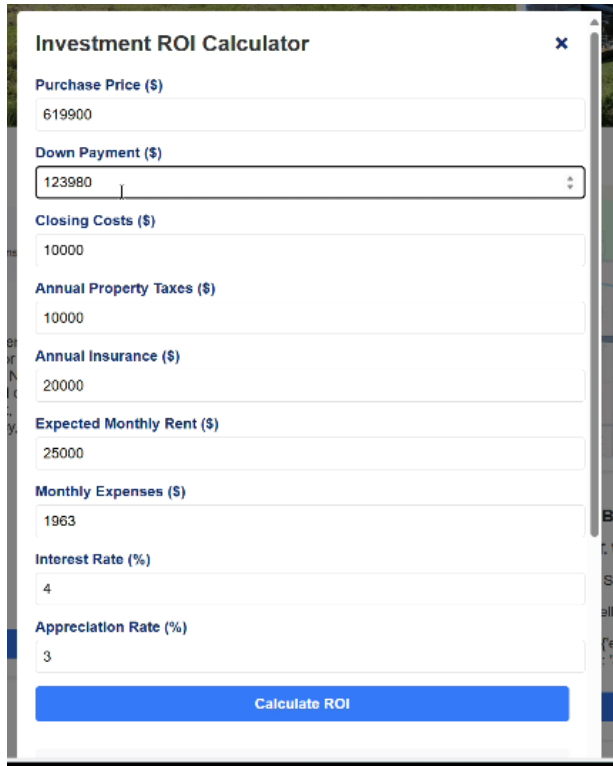
Manage Street LLC

Email: hello@managestreet.com

Phone: [{"ext": None, "primary": True, "type": "Office", "number": "3219264105"}]

Contact Agent

Task 2: ROI Tool Demo Results Image



Investment ROI Calculator

Purchase Price (\$)
619900

Down Payment (\$)
123980

Closing Costs (\$)
10000

Annual Property Taxes (\$)
10000

Annual Insurance (\$)
20000

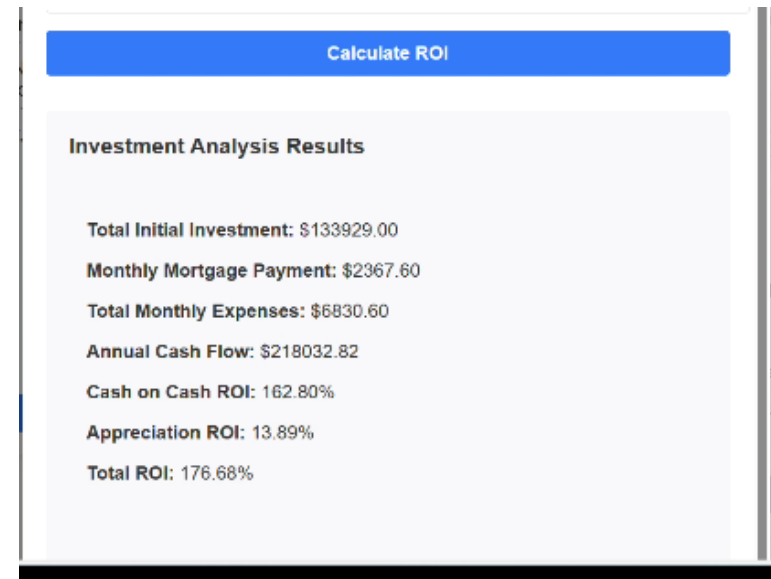
Expected Monthly Rent (\$)
25000

Monthly Expenses (\$)
1963

Interest Rate (%)
4

Appreciation Rate (%)
3

Calculate ROI



Calculate ROI

Investment Analysis Results

Total Initial Investment: \$133929.00

Monthly Mortgage Payment: \$2367.60

Total Monthly Expenses: \$6830.60

Annual Cash Flow: \$218032.82

Cash on Cash ROI: 162.80%

Appreciation ROI: 13.89%

Total ROI: 176.68%

Task 3: MERN Stack with Flask



- Successfully implemented Flask backend, enhancing functionality and performance.
- Improved house scoring algorithm and optimized search latency by refining our Python query script.



- Leveraging Python with the MERN stack to enhance the Neighborhood Insights Dashboard.
- Implementing dynamic graphs and charts instead of static images for better interactivity.

Task 4: API Research & Testing

Bring API
Neighborhood data to
the front end in
graphical form using
JavaScript.

Continue to refine our
Homeharvest search
and investigate lazy
loading

Milestone Five Plan

Task	Donovan	Jonathan	Enrique
1. Finalize caching implementation & optimize user location tracking	implement/test 40%	Research 20%	Research/implement 40%
2. Continue to develop and begin testing of Neighborhood Insights Tool	Design 50%	Design 25%	Design 25%
3. Finalize ROI tool & improve frontend styling	Implement 40%	Implement 30%	Implement 30%

Task 1: Research and Begin Development on our Loading Method and Caching Searches

Integrate location tracking to display relevant property listings based on a user's geolocation

Improve speed and efficiency

Task 2: Neighborhood Insights Tool Development/Integration



Incorporate the API data we are getting for crime rates, school ratings, and local business information for each user location query (zip code) to the front end



Thoughtful UI presentation to ensure a seamless user experience

Task 3: Finalizing ROI Tool and Continued Frontend Upgrades

Require less
manual entry

Revisit how we
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.

Caching and Lazy Loading

- Focus on reducing latency to retain user engagement.

Questions?

