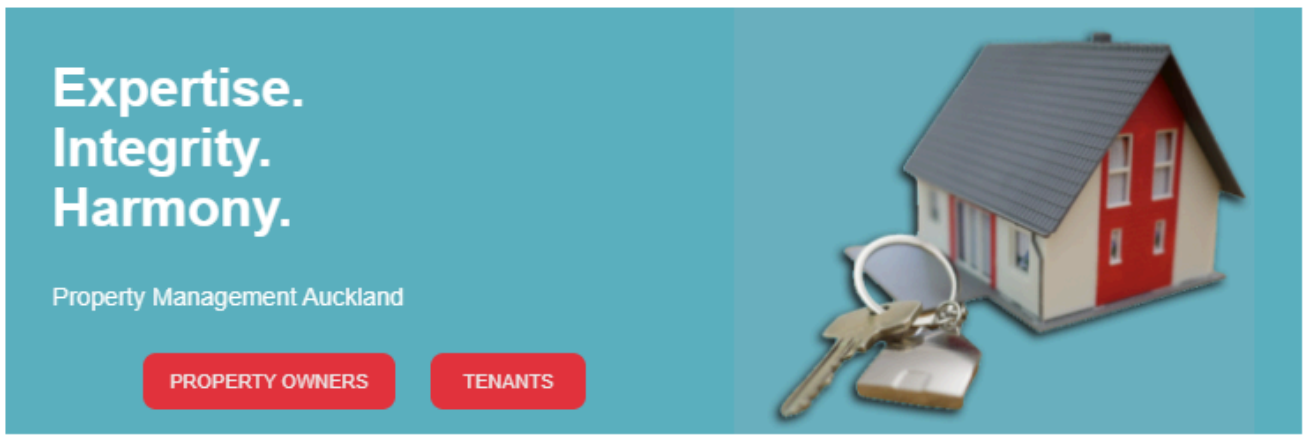
MetroGE

Home Rent Application



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We conduct a thorough appraisal of your property based on current market rates. We will help you get the most from your investment.

Every property we manage is Healthy Homes compliant and in good condition. We work with you to get the best from your property.

★★★★★

Jane
Auckland

"My experience was really good from start to finish. Frank and Zsuzsanna have both gone over and above my expectations as property managers. They are the main reason I was able to leave both my properties as rentals instead of selling them. Thank you so much.

★★★★★

Elliot
Wellington

"I've been using Metro Property Management for a year now, and I couldn't be happier. Their team is highly professional, responsive, and efficient. The peace of mind I have knowing my investment is in good hands is invaluable. Highly recommended!

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"Metro NZ Property Management has been a game-changer for me. From finding tenants to handling requests , they excel in every aspect of property management. Their transparent communication and personalized service make them stand out.

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Project Overview

This home rent application was developed by a team of full-stack developers as part of our Full-Stack Development studies.

The goal of the project was to build an interactive, user-friendly application based on a prototype designed by UX designers. This project enabled us to implement both frontend and backend functionality while leveraging modern tools, frameworks, and technologies.

The app is designed for users looking to rent homes, allowing them to filter properties based on location, rent range, and various property types. The application integrates a MongoDB database to store property listings, which are filtered according to the user's search criteria.

Key Features

Backend and Filtering:

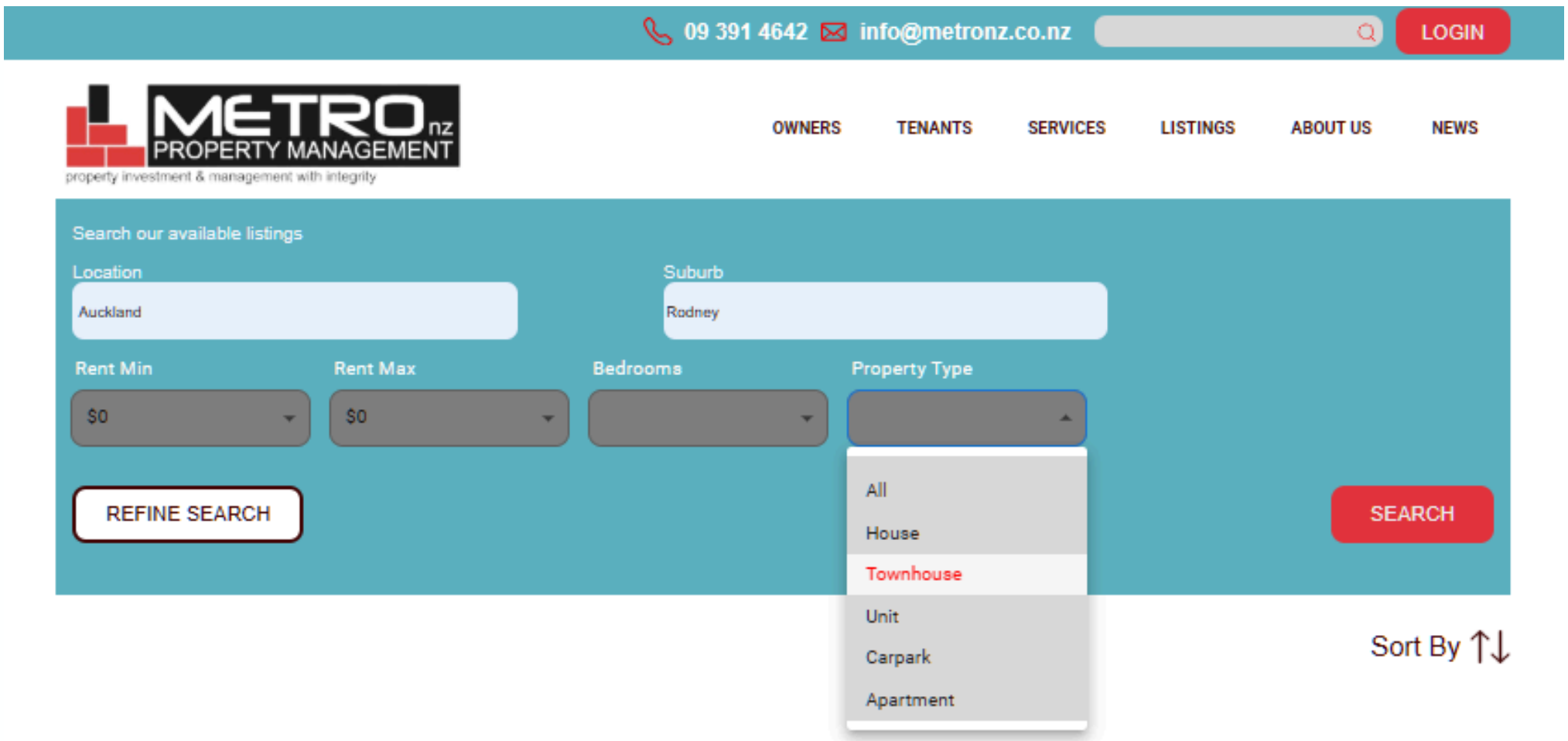
A MongoDB database stores property listings, and users can filter search results based on the criteria entered. The backend processes these queries, returning relevant results quickly and efficiently.

Frontend Design:

The homepage is built according to the exact specifications laid out by UX designers, ensuring a visually appealing and functional user experience.

Tenant Listings Page:

- Location
- Suburb
- Minimum and maximum rent
- Number of bedrooms
- Property type (House, Carpark, Townhouse, Unit, Apartment)



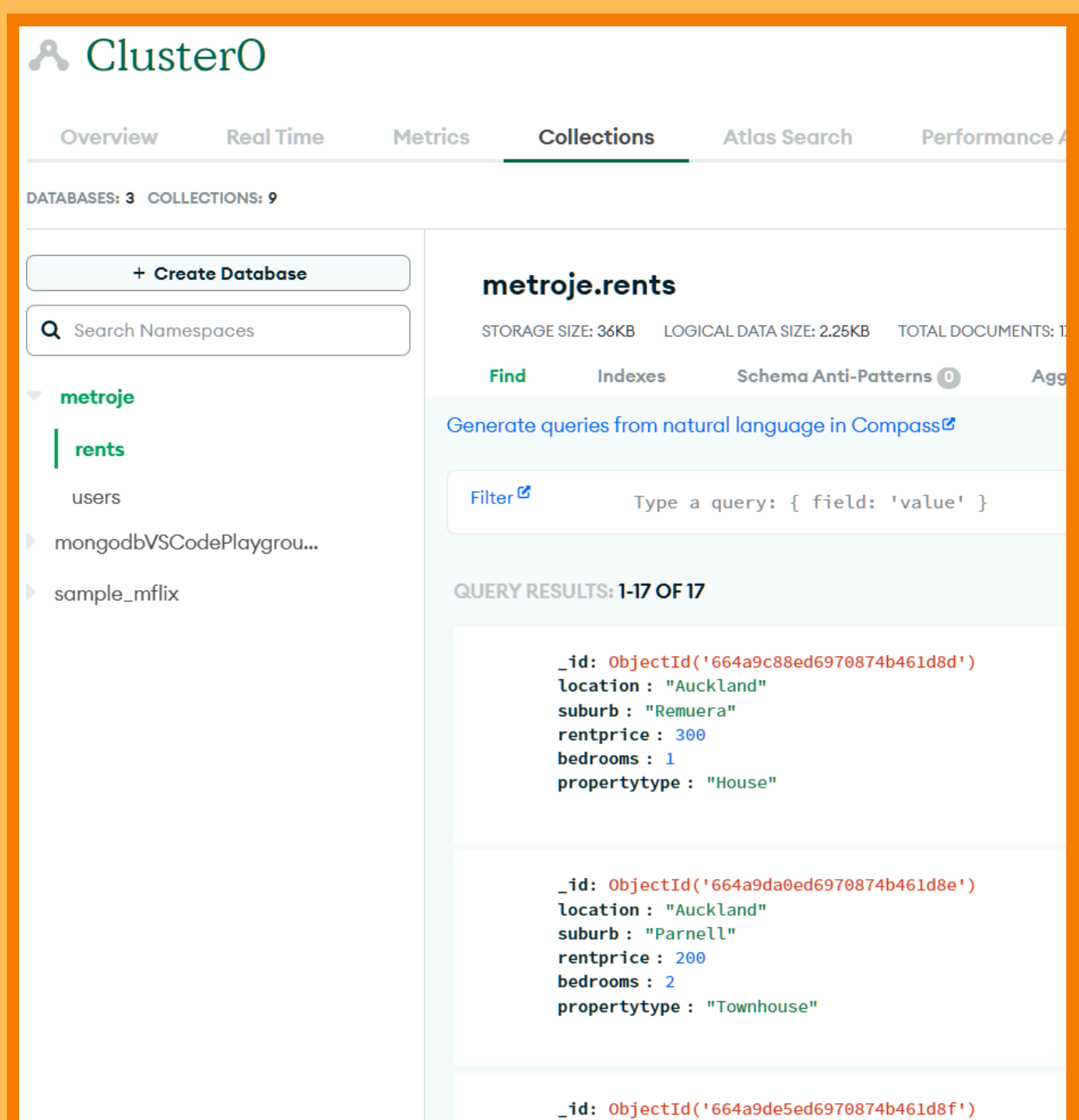
Deployment

The app was successfully deployed on Vercel for frontend functionality. However, due to the app's dynamic nature and reliance on a backend that processes data from MongoDB, the full functionality of the app requires a more robust deployment environment for backend operations, which is not currently available in the free-tier services.

Limitations

Due to limitations in the deployment environment, the live version of this app does not fully demonstrate its backend features. The app is designed to work with a MongoDB Atlas database and requires server-side functionality that is not currently hosted.

MongoDB Atlas



Technologies Used

Programming Language: **TypeScript**

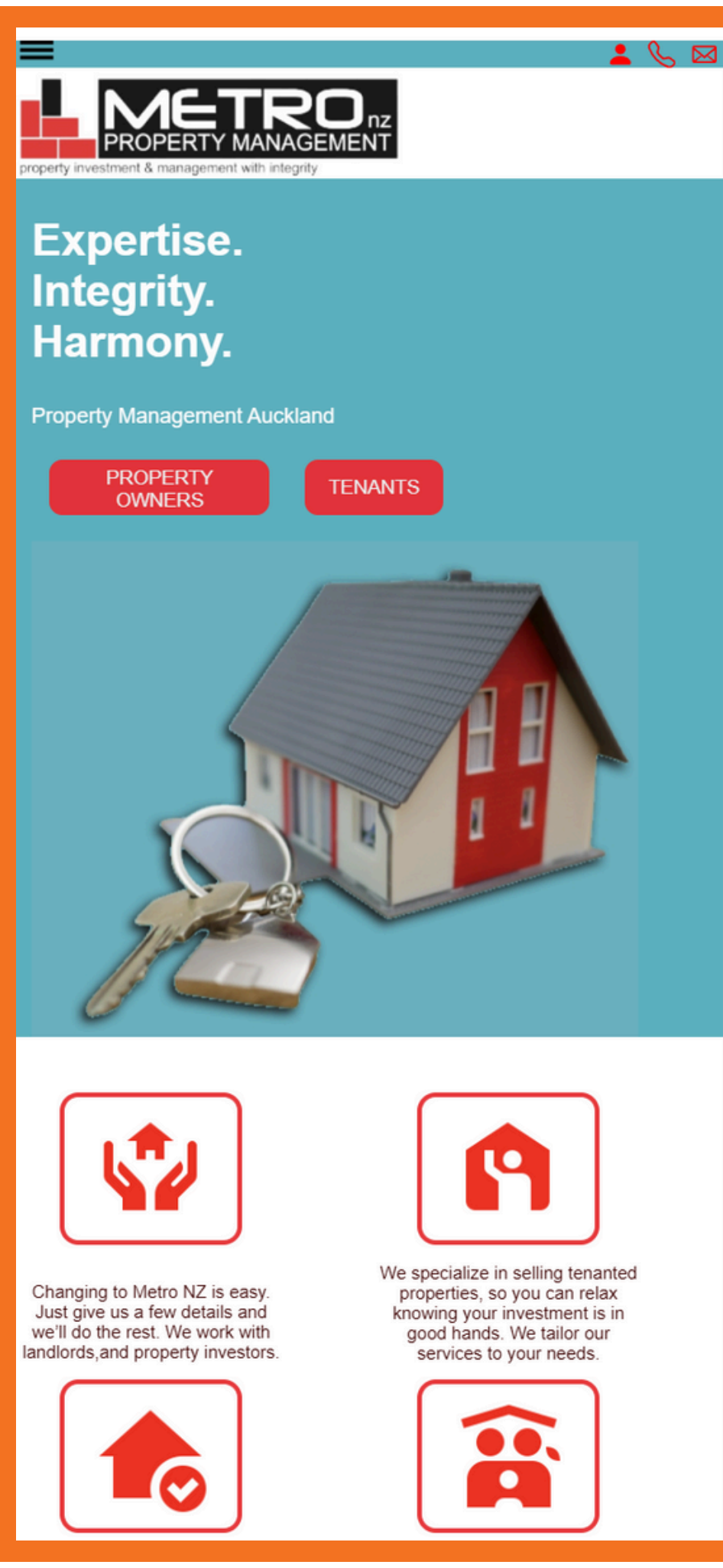
Frontend/Backend Frameworks: **Node.js, React, Express**

Database: **MongoDB**

Testing Tools: **Jest, Supertest** (for API testing)

Containerization: **Docker Compose**

DevOps and Deployment: **GitHub Actions for CI/CD pipeline, deployed to Cloud Run**



Development Process

We worked collaboratively through GitHub, sharing common components and responsibilities across the frontend and backend. Each team member contributed to different aspects of the project, and we utilized GitHub to manage code sharing and version control.

I personally focused on building the homepage and later improved backend functionality to enable proper filtering of tenant listings. This experience allowed me to better understand both frontend and backend aspects of development.

Installation and Usage

01

Clone the repository:

git clone https://github.com/pocpat/metroje

02

Build and run the project with Docker Compose:

docker-compose up --build

THANK YOU

Thank you for taking the time to read about my home rent application project. This project reflects my passion for full-stack development and my ability to work on both the frontend and backend while collaborating with a team. I continuously strive to learn and grow in web development, and I look forward to applying my skills in future projects.

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