Design Phase for House Hunt Project

DATE	22JUN 2025
TEAM ID	LTVIP2025TMID57110
PROJECT NAME	HOUSEHUNT-FINDING YOUR PERFECT RENTAL HOME

1. System Architecture

The architecture of the House Hunt project can be divided into two main components: the Frontend and the Backend. The frontend is responsible for the user interface and user experience, while the backend handles data processing, business logic, and database interactions.
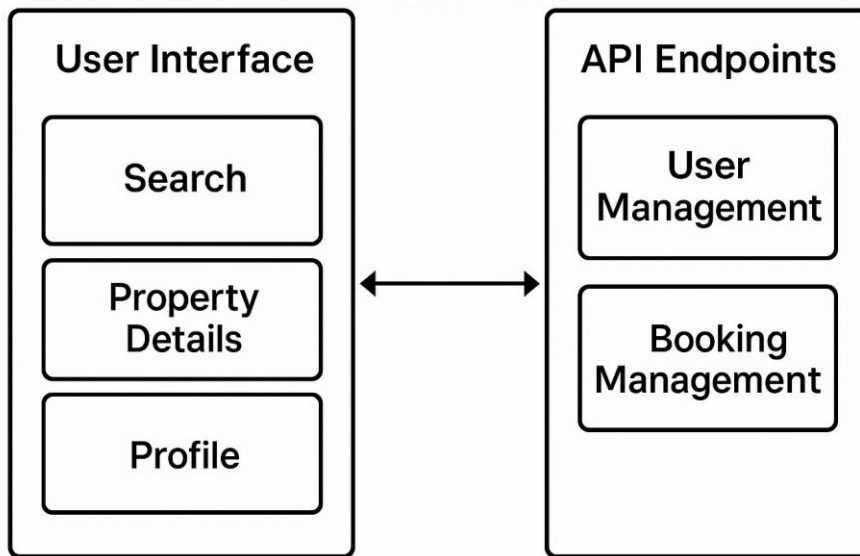
1.1 Architecture Diagram
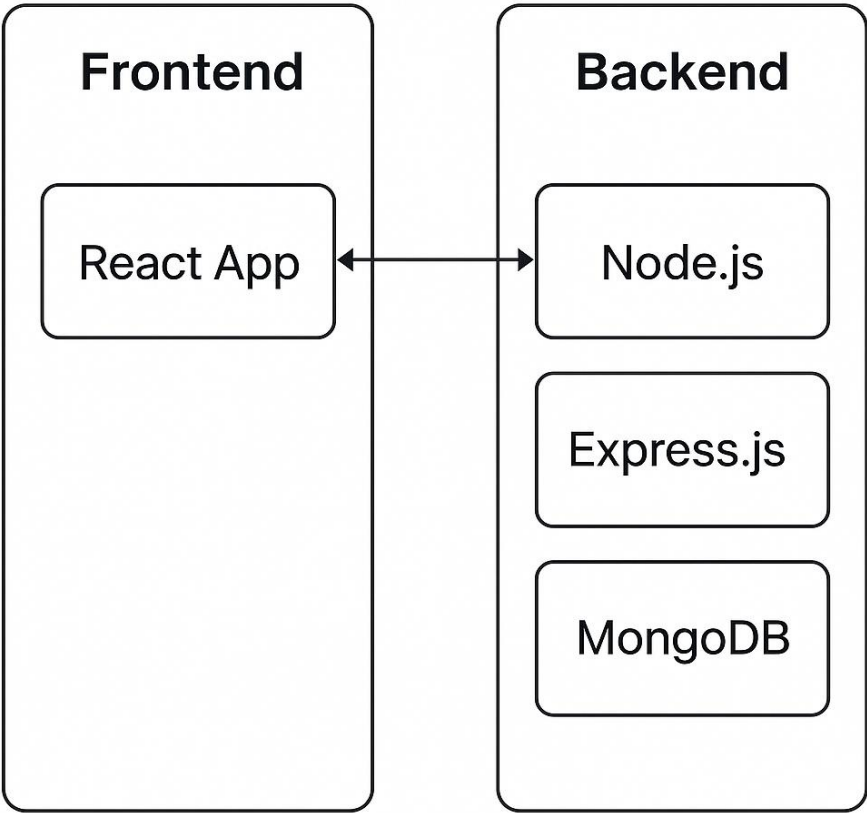
2. Component Design

The system can be broken down into several key components, each with its own responsibilities.

2.1 Component Diagram

3. Data Flow

The data flow between the frontend and backend can be illustrated using a sequence diagram. This diagram shows how data is exchanged during a typical user interaction, such as searching for properties.

3.1 Sequence Diagram

User -> Frontend: Search for Properties
Frontend -> Backend: GET /api/properties?searchCriteria
Backend -> Database: Query properties based on criteria
Database -> Backend: Return properties
Backend -> Frontend: Return properties data
Frontend -> User: Display properties

4. Database Design

The database design is crucial for managing the data effectively. Below is a simplified Entity-Relationship Diagram (ERD) that outlines the main entities and their relationships.

4.1 Entity-Relationship Diagram (ERD)
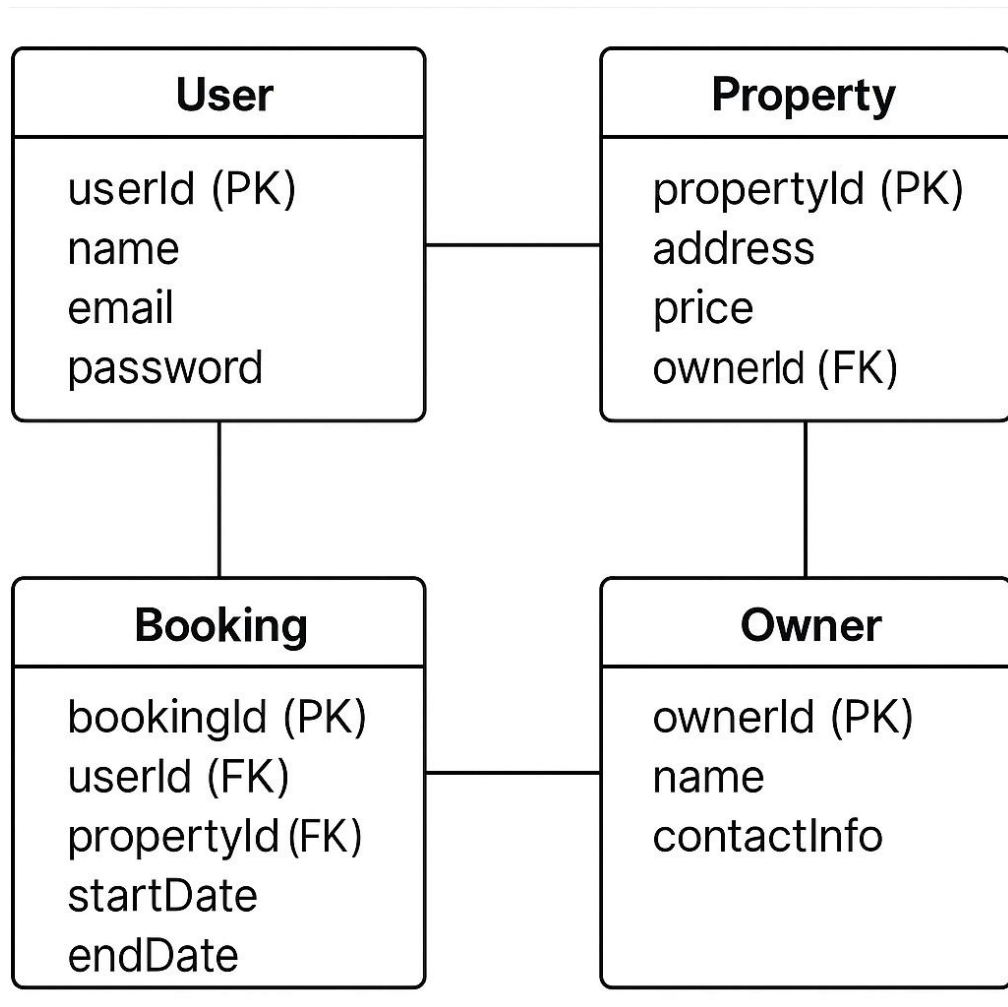
Conclusion

This design phase outlines the architecture, components, data flow, and database design for your House Hunt project. The diagrams provide a visual representation of how the system is structured and how different components interact with each other. If you have specific requirements or additional components to include, please let me know, and I can adjust the design accordingly!