# House Finder

**Experience the Reliable**

Email Address

alem@gmail.com

Password

\* \* \* \* \* \* \* \* \* \*

Login

Dont have an account? Signup

# System Model

## 3.1 Scenario

This section describes how a user would experience the functionality of the system.

**Scenario Name**: Login

**Pre-Conditions:** house-finder app must be launched, internet connection has to be available and user must provide valid username and password.

**Participating instance actors**: all users

**Flow of events:**

1. Users must launch the app by tapping the icon.
2. The system render login screen with email and password input fields
3. Enter valid input and click the Login button.
4. System checks for input validation and allow user login into the system

**Alternative Condition:** If the user enters email and password incorrectly the system will generate an error message.

**Scenario Name**: Search House for Rent

**Pre-Conditions:** house-finder app must be launched, internet connection has to be available and tenant must enter the search criteria and write it in the right spell.

**Participating instance actors**: Tenant

**Flow of events:**

1. The tenant must launch the app by tapping the icon.
2. Tenant taps the search tab bar
3. System render search screen and allows user to enter search criteria
4. System will response list of available house
5. The Tenant should tap each list of available houses to view detailed information.

**Alternative Condition:** If the user enters searching criteria incorrectly the system will generate an error message.

**Scenario Name**: Add House for Rent

**Pre-Conditions:** house-finder app must be launched, internet connection has to be available and landlord has to allow the house finder application to access location.

**Participating instance actors**: Landlord

**Flow of events:**

1. The landlord must launch the app by tapping the icon.
2. The landlord tap the add sign button from home listing screen
3. System render the Add House screen and allows user to enter household information
4. The landlord fills the form and click add button
5. System check for input validation and register the house.

**Alternative Condition:** If the user enters house information incorrectly the system will generate an error message.

### 3.1.1 Use Case Model

The most important model elements in the system are: use cases, actors and the relationships between them.

**Actor Identification**

**Name:** Tenant

**Description: a Tenant is** a person who is looking for a rental house based on his search criteria.

**Role:** create account, search houses, view house detail and contact Landlords

**Name:** Landlord

**Description: A Landlord is** a person who can provide rental house service for tenants and responsible for maintaining rental house information.

**Role:** create account, post house, search houses, view house detail and edit houses and delete houses.

**Name:** Admin

**Description: A Landlord is** a person who is responsible to manage account, generate report, and provide support for app users.

**Role:** monitor transaction, provide support, generate report and manage accounts.
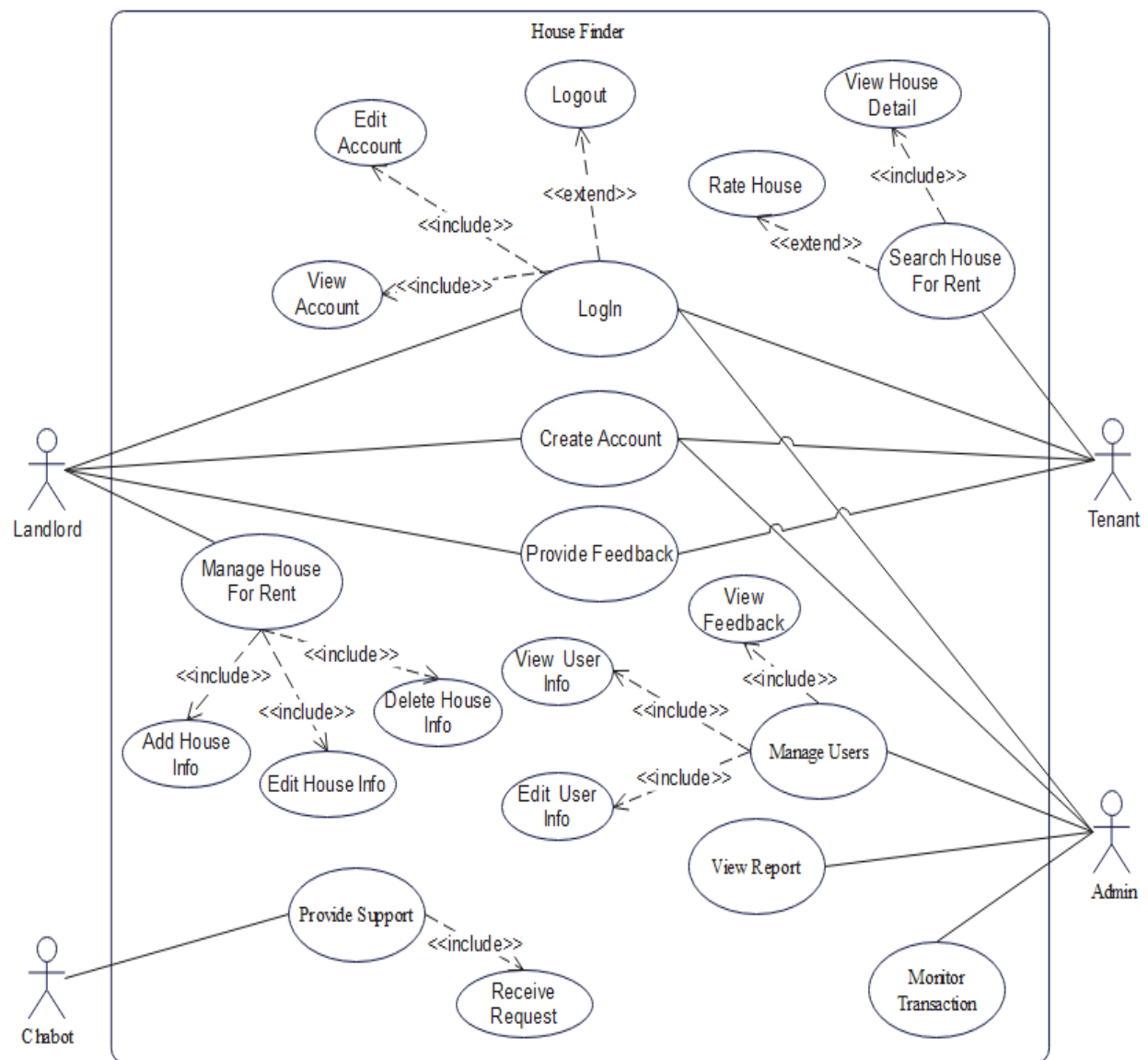
### 3.1.2 Use Case Diagram



*Figure 3.1 Use Case Diagram of House Finder App*

### 3.1.3 Description of Use Case Model

This section shows the detailed description of interaction between the actors and their use cases. The description enables one to have a proper understanding of how actors (Tenants, Landlords, Admin) interact with the system through their use cases.

**Tenant**: - a person who is looking for a rental house based on his search criteria.

**Landlord**: a person who provides house rental service for clients, and responsible for maintaining rental house information.

**Admin:** a person who is responsible to manage requests from users.