

UML Diagrams for HomeBody App

Use Case Descriptions

Use Case: Access the app using an android phone – display houses

Iteration: 2, last modification: April 2 by S.Hajnasrollahi

Primary Actor: Those transitioning or non-binary individuals who seek gender-inclusive housing (TCNJ students and individuals).

Goal in context: To build an iOS application where low-income individuals in the Ewing/Trenton area can locate gender inclusive housing nearby.

Use Case Goal: Low-income individuals in the Ewing/Trenton can view houses by choosing the specific town.

Preconditions: Users should have an Android phone and they should download the HomeBody app.

Trigger: An individual, specifically a TCNJ student, would like to find gender-inclusive housing in Ewing/Trenton area.

Scenario:

1. Android users download the app from Google Play store
2. Users pick either Ewing/Trenton as an option for housing
3. Results are shown based on what the user selected
4. The system now displays the houses pictures
5. The system also provides description to each of the houses (Ex: how far the houses are from TCNJ, the rent price, numbers of rooms and etc...)

Exceptions: If user does not select an option in the beginning, the system would never show the results.

Priority: High priority – basic function of the app

When Available: First Increment

Frequency of use: Frequent

Channel to Actor: Android app and internet connection

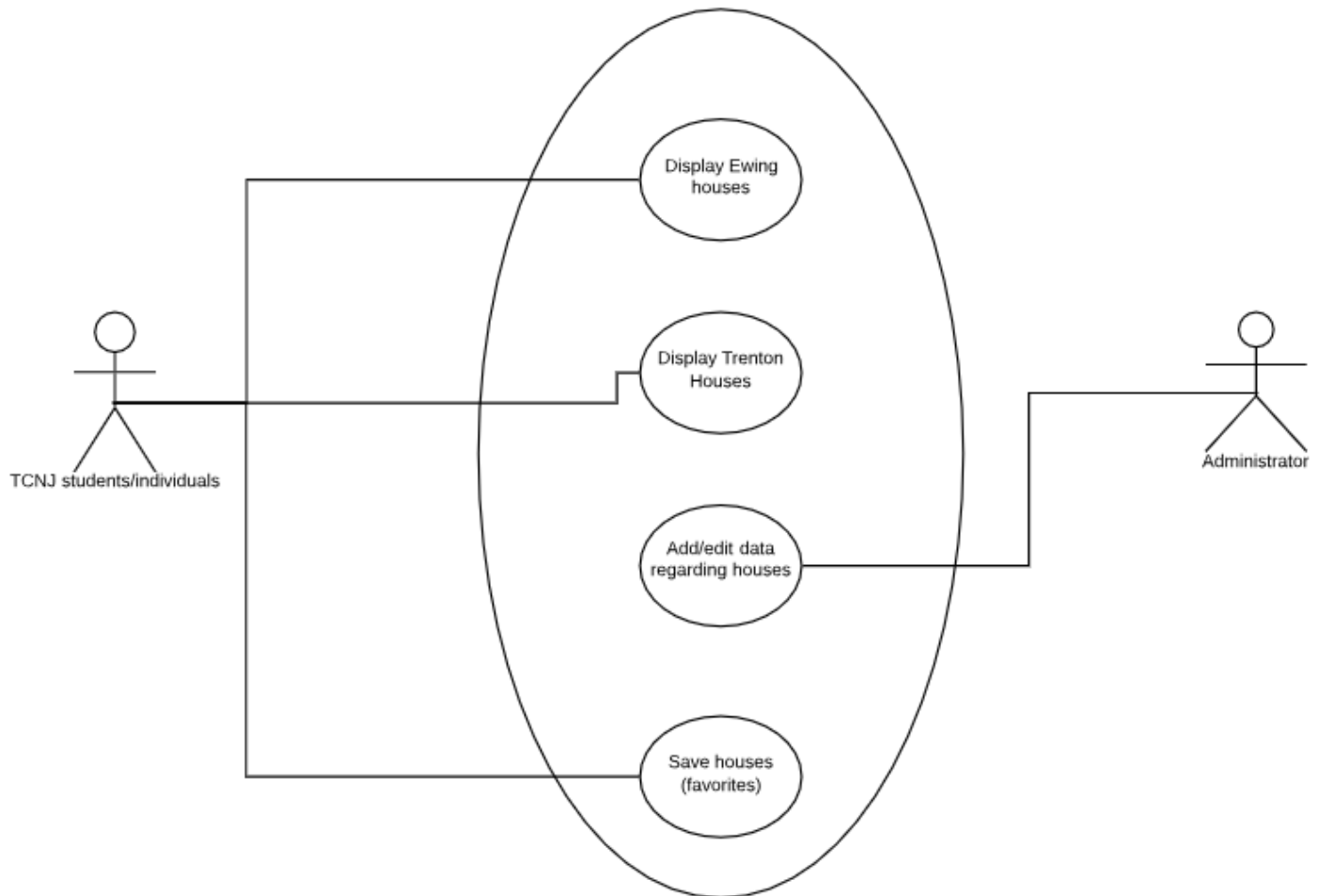
Secondary Actors: System Administrator

Channels to secondary actors: System Administrator: PC-based system and Android app

Open Issues: Is security sufficient? Hacking into the app would represent an invasion of privacy

UML Diagram for HomeBody

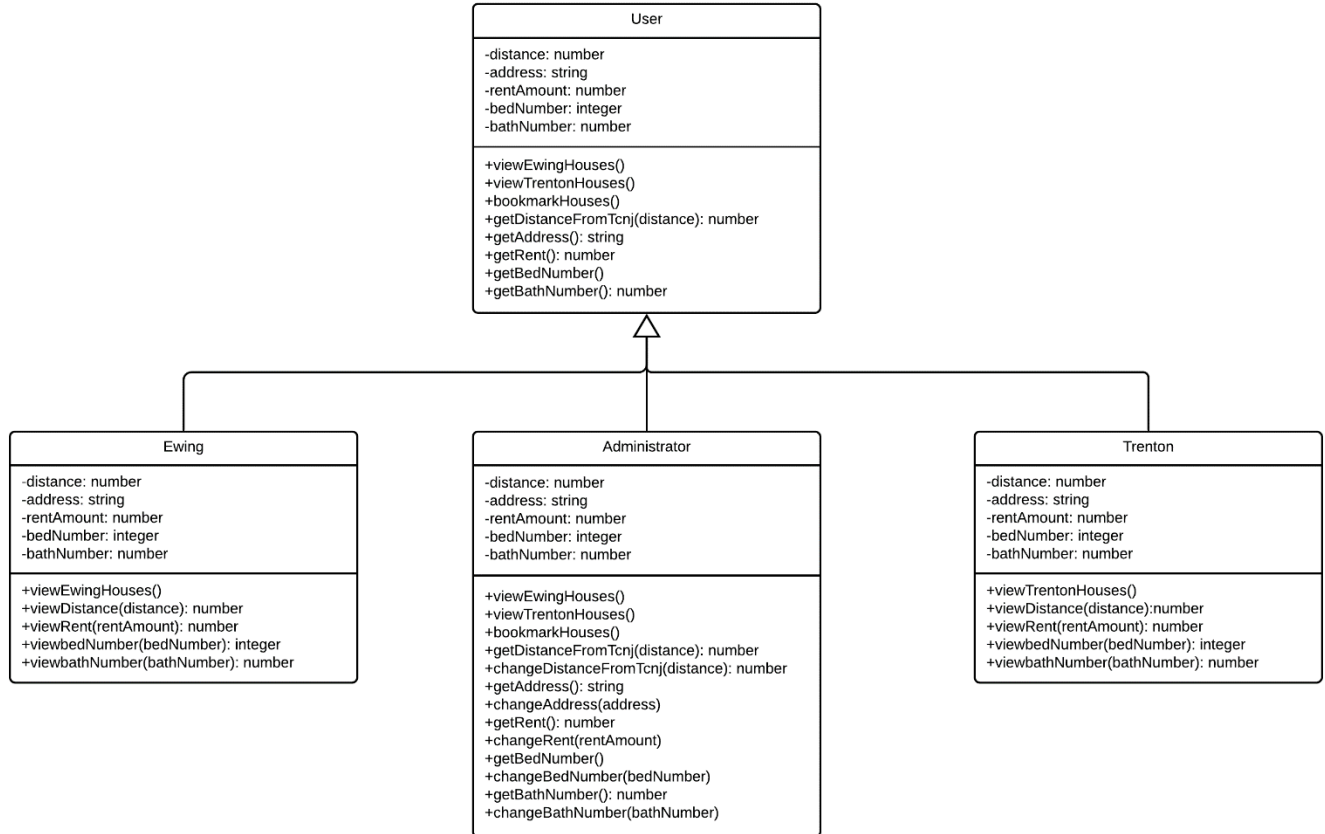
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Detailed Design Class Diagram

Design Class Diagram

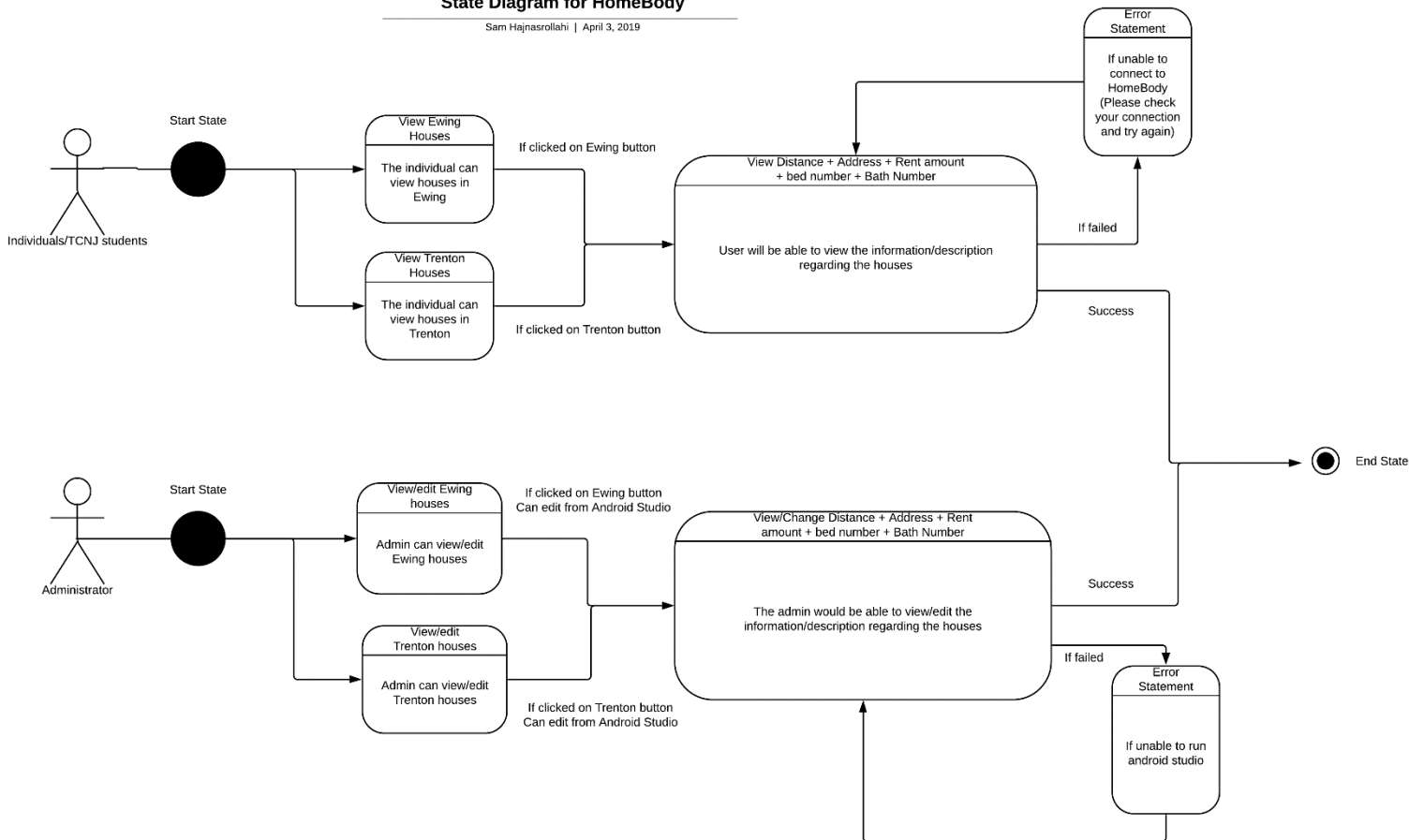
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Statechart

State Diagram for HomeBody

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System Sequence Diagram

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