

CSC1808 PROJECT

Nextdoor

A Project Report

Submitted by:

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in partial fulfilment for the award of the degree
of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

at



Department of Computer Science & Engineering

Faculty of Technology & Engineering

The Maharaja Sayajirao University of Baroda

April-2021

DECLARATION

I hereby declare that the project entitled “**Nextdoor**” submitted for the B. E. (CSE) degree is my original work and the project has not formed the basis for the award of any other degree, diploma, fellowship or any other similar titles.

Signature of the Student's

Place: Vadodara

Date:

CERTIFICATE

This is to certify that the project titled “**Nextdoor**” is the genuine and original work carried out by **Modi Chirag,Prajapati Kaushik,Vankar Chintan** student/s of B E (CSE) of faculty of Technology & Engineering, The Maharaja Sayajirao University of Baroda during the academic year 2020-21, in partial fulfilment of the requirements for the award of the degree of Bachelor of Engineering (Computer Science and Engineering).

Signature of the Guide

Signature of the Head of the Department

Place: Vadodara

Date:

Abstract

- The objective of this thesis was to develop the Online Rental System in a more interactive & fashionable way. The main reason behind implementing this project was the people needed a system where people can search the house/shop according to their requirements without visiting to individual house/shop.
- The system was implemented to replace the tradition rental system by online mode, due to the middle men available in the most of the offline renting system people need to give them a commision and also they have to suffer to view the property, in our system we provide the photos of the property online as well as we have ommited all of the physical work which is done by the both parties.
- In our online system of the house/shop renting people can search the properties of their choice and also view the whole property by the photos we have uploaded and also contact to the respective owner without offline meetings.
- The system was implemented by using most well-known programming technologies and languages. The client side was needed to be friendly user interface CSS entirely used with HTML and JavaScript. The server side program was needed for storing all required data into the database by using MSSQL database which users easily can retrieve and store the data into database through sql queries we have implemented in backend using java database connectivity. We have also implemented the dynamic web pages using Java Servelets,JSP.

Acknowledgement

- The success and final outcome of our project required a lot of guidance and assistance from many people and we are extremely privileged to have got this all along the completion of our project. All that we have done is only due to such supervision and assistance and we would not forget to thank them.
- We respect and thank Dr. Viral Kapadia and Dr. Anjali Jivani, for providing us an opportunity to do the project work and giving us all support and guidance which made us complete the project duly. We are extremely thankful to them for providing such a nice support and guidance, although they had busy schedule managing the corporate affairs.
- We owe our deep gratitude to our project guide Prof. Krina Shah who took keen interest on our project work and guided us all along, till the completion of our project work by providing all the necessary information for developing a good system.
- We would not forget to remember our family and friends for their encouragement and more over for their timely support and help till the completion of our project work.
- We are thankful to and fortunate enough to get constant encouragement and support and guidance from all technical staff of Computer Science and Engineering Department which helped us in successfully completing our project work.

(A typical specimen of table of contents)

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1.Introduction

1.1 Problem Definition

- In our day to day life tenant face lot of issues related to find house or shop for rent. For this they have to talk with brokers and sometimes they have to search whole city to find house and shop. In offline mode sometimes people have to spend a lot of time and money, too. Our project will help these people to find the house/shop in online mode without including a middle person.

1.2 Project Overview/Specification

- Nextdoor is a website in which If someone is looking for house or shop then our website will provide the best possible house or shop based on amount of rent and location.
- NextDoor is useful to owner of house or shop as through this owner and renter can communicate to each other without including third person.
- Renter find immediate solution for finding house or shop without wasting money and time.
- Renter see houses or shops based on various filters like location, price, area.
- There is one to one communication between renter and owner
- Owner can also give his/her property to rent right person in less time and without wasting money.
- Renter will also receive the house/shop agreement within 7 days at their location.
- Renters also get some household services through the advertisements.
- NextDoor is useful to owner of house or shop as through this owner and renter can communicate to each other without including third person.

1.3 Hardware Specification

Several hardware platforms support online auctioning and banking transactions. An online auctioning system is effective when the correct software application and hardware configuration is used.

- **HARDWARE**

- ❑ Processor : Intel Pentium 4 or above
- ❑ RAM : 256 MB or above
- ❑ Hard Disk : 160 GB or above
- ❑ Benefits Mid-range systems are small, powerful and easy to maintain.

Mid-range system hardware is less expensive than high-range equipment, has built-in, preventive maintenance utilities which automatically monitor central processing unit (CPU) usage and other hardware functions. Workstations can be integrated into the system and configured to process regular and Web auctioning made easy

1.4 Software Specification

- Operating System: Windows NT or higher
- Web Server: Apache Tomcat 5.0
- Database: Oracle 11g
- Connectivity: Oracle Driver
- Cell Phone Manager 3.1
- Code standard

2 Literature Survey

2.1 Existing System

The process for a normal person to find a house/Shop for a rent is nowadays too complex, they have to communicate with the middle man to communicate the owner and also they have to pay as a commission to that person.

In reality it is so difficult to know where to find the house/shop for rent and how to communicate with the person

In the local areas there are some people who are in charge of some of the houses and shops and they find the people who want houses/shops on rent, these people are called commissionaires. Their target is to find a home or house based on the price and rooms that a client specified.

Generally these people are found the renters for their shops/house and they also charge some money to do this task from both of the sides.

This system presents some weaknesses referring to how it is done currently. That is why making it automated and accessed to everyone concerned, may improve its performance and management.

2.2 Proposed System

In our system we have implemented all of the loopholes present in the existing system in an easy way. In our system owners of the property need not to find the middle man to advertise their house/shops and also renters need not to go outside to find the shops/houses, they can just use our system where we have given the filters based on their need they can search the property and also they can communicate to the owner of property.

3.System Analysis and Design

3.1 Tools and Technology

3.1.1 Technology Stack

- Java Servlets,JSP
- Relational Database
- JDBC
- HTML/CSS/Bootstrap
- JavaScript

3.1.2 Tools

- Eclipse
- Oracle 11g
- VS Code

3.2 Requirement Specification

3.2.1 Functional Requirements

- 1) **Login:-** Admin and user can login
Input: username and password
Process : the System verify details from database
Output: They will get the dashboard

- 2) **Signup:-** user can Signup into system
Input: Email Id,Password and Name
Process : the System validate details and insert into database
Output: They will get the dashboard

- 3) **Add Property:-** Owner of property can add his/her property
Input: All required Property details
Process: All details of Property inserted into database
Output: Property will appear on Home Page

- 4) **Filter Property:-** User can Filter Property based on location and rent
Input: Location and Rent
Process: search property based on location and rent from database
Output: Selected Property will see on page.

- 5) **Contact to Owner:-** renter can contact to owner
Input :- Name, Email Id Of renter and message
Process:- Name,Email, and message will send to Owner.

- 6) **Add to favorite:-** User can add Property into his/her wishlist
Process: Favorite Property is added into database.
Output: Favorite Property will see on My favorite Page.

- 7) **Make Agreement:-**Owner Of property can make rent agreement of his/her Property.
Input:- All details of related to Agreement.
Process:. Details of agreement inserted into database
Output: Agreement will create and user can download.

8) Feedback :-User can give his/her valueable feedback

Input:- rating out 5 star and description

Process:. Feedback will store in database

Output: user's feedback will display in admin dashboard

9) Complaint :-User can file complaint against other user

Input:- All Complaint details

Process:. Complaint details will store in database

Output: user's complaint will display in admin dashboard

3.2.2 Non Functional Requirements

1) **Portability:** - This application will work on windows, IOS, Android.

2) **Performance:** - The software shall support use of multiple users at a time.

4) **Maintainability:** - The user will be able to reset all options and all stored user variable to default settings.

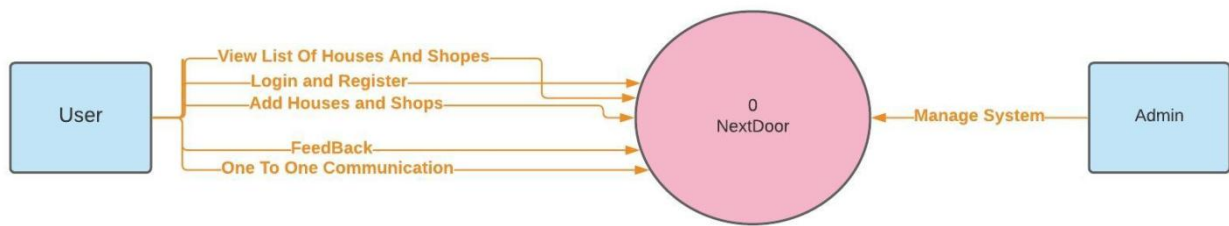
5) **Reliability:** - All data storage for user variables will be committed to the database at the time of entry.

6) **Usability:** - A logical interface is essential to an easy to use system speeding up tasks.

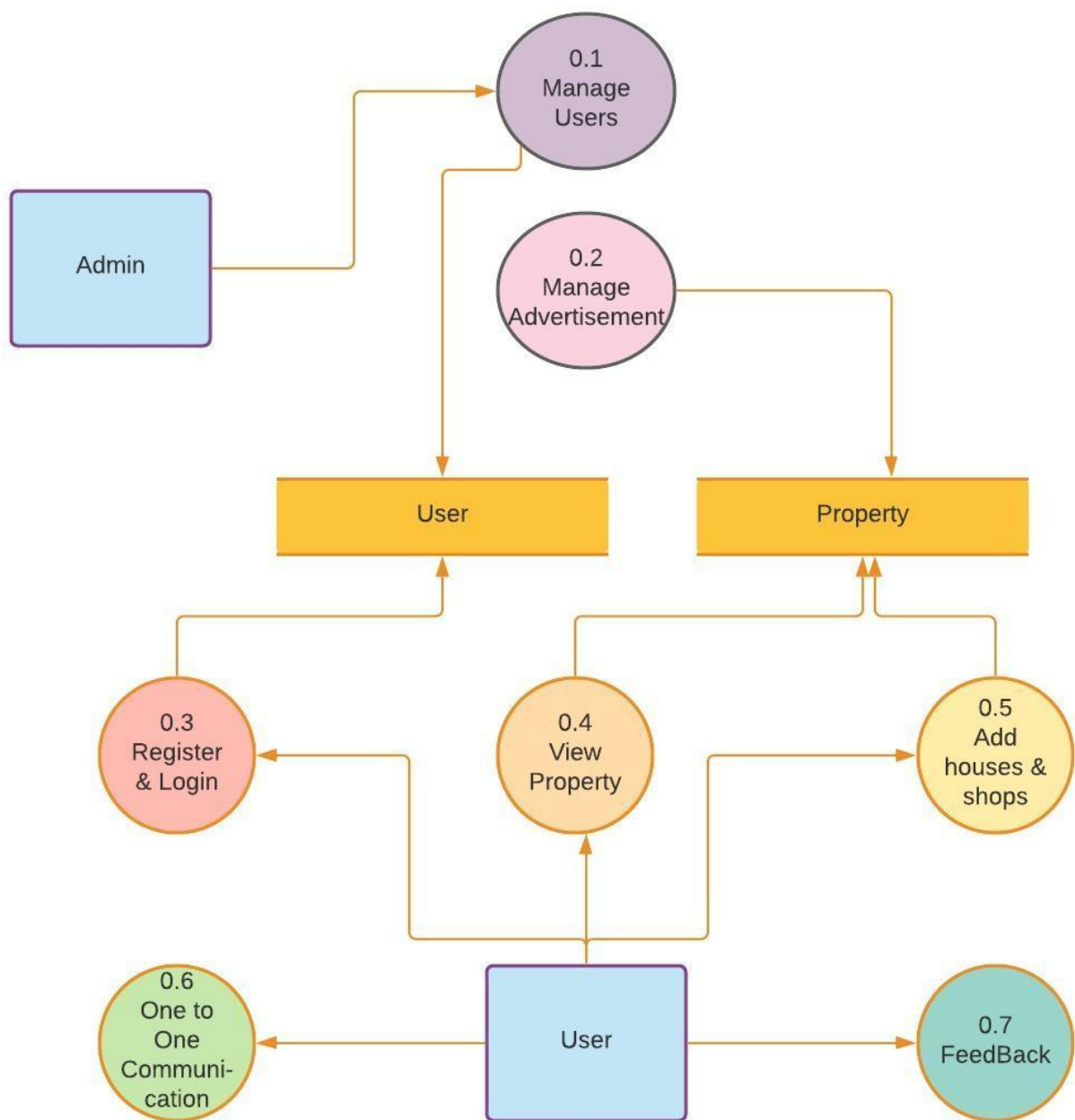
7) **Availability:** - All cached data will be rebuilt during every start-up. The is no recovery of user data.

3.3 Diagrams

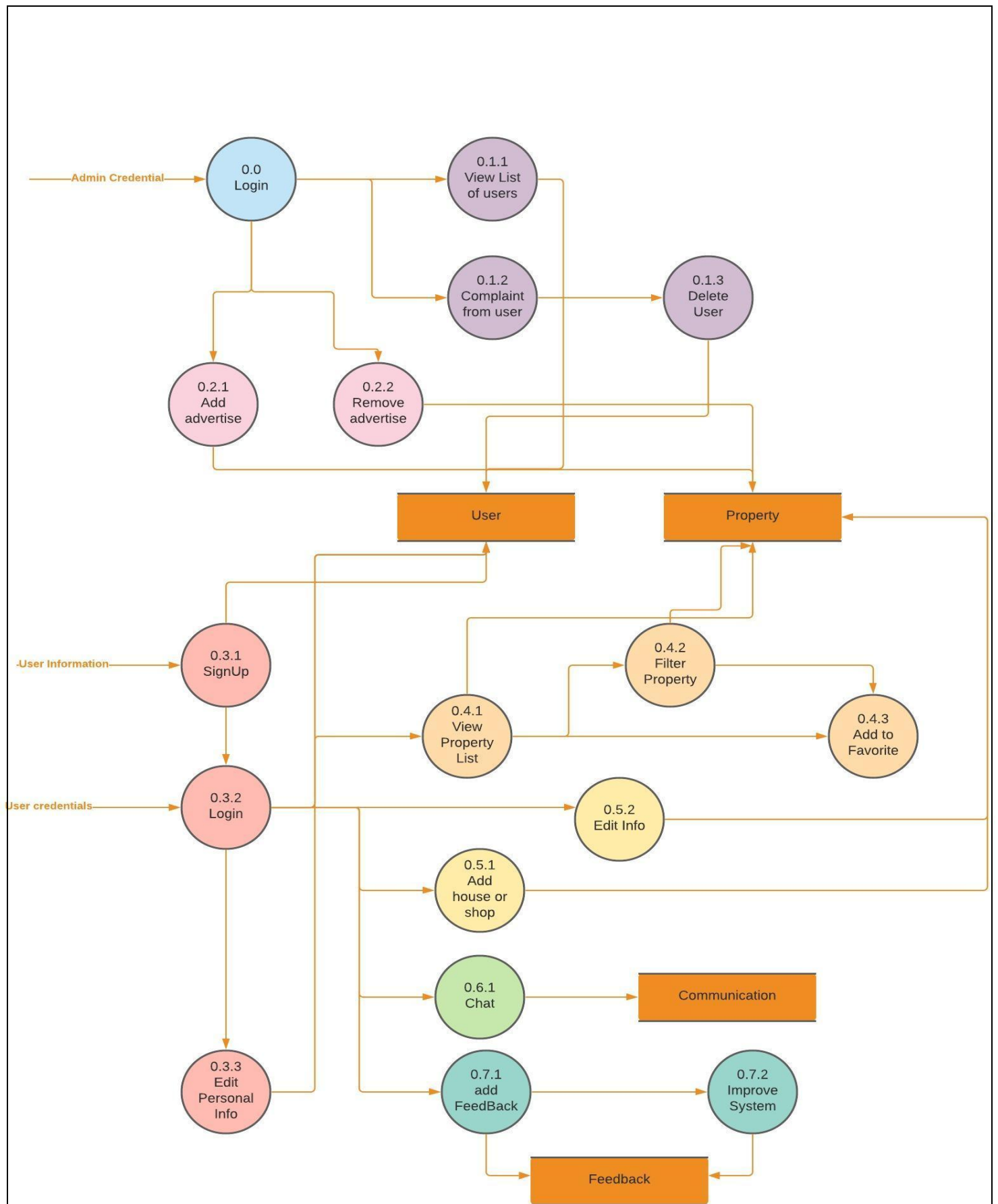
3.3.1 DFDs:



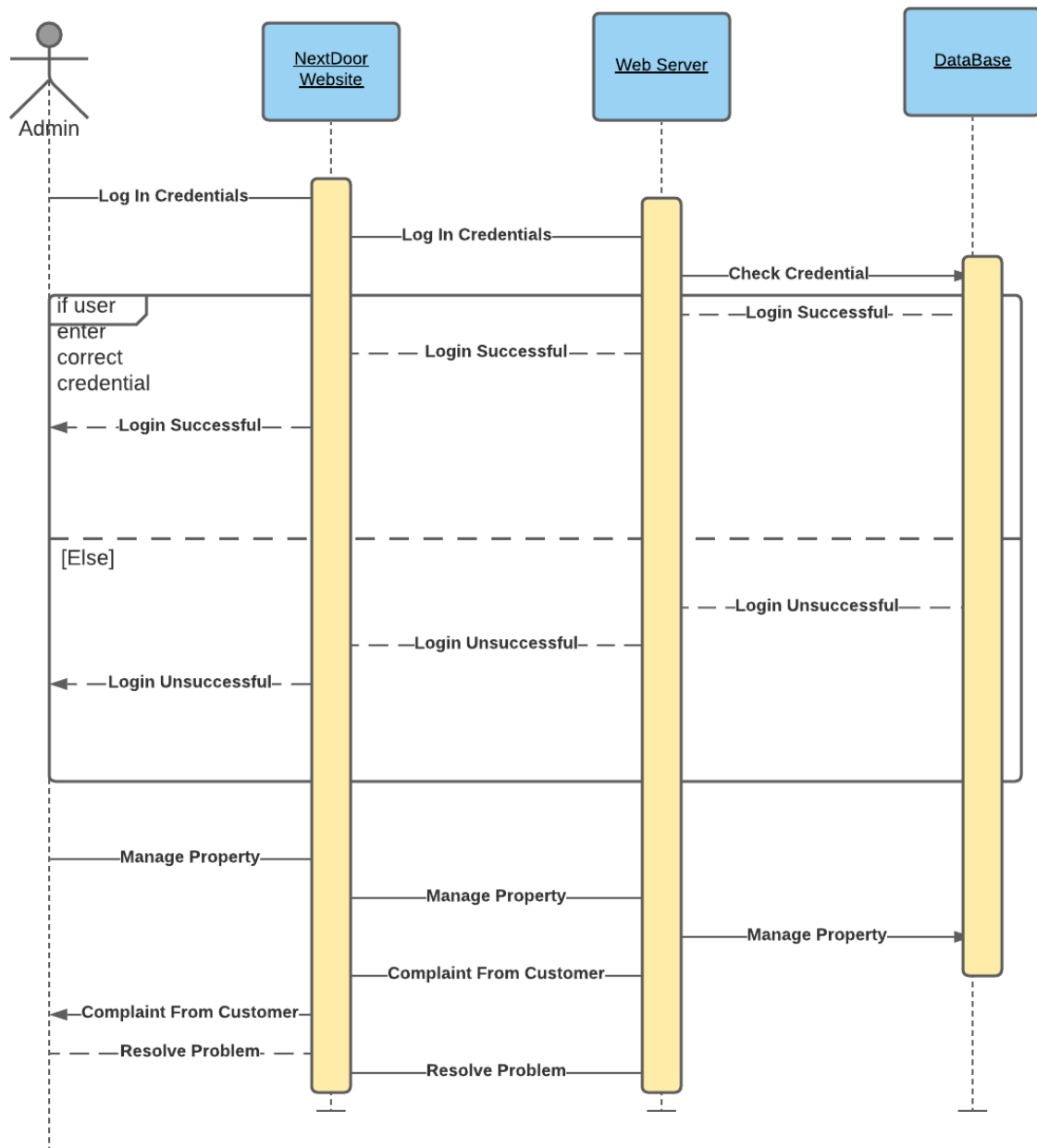
DFD Level 0



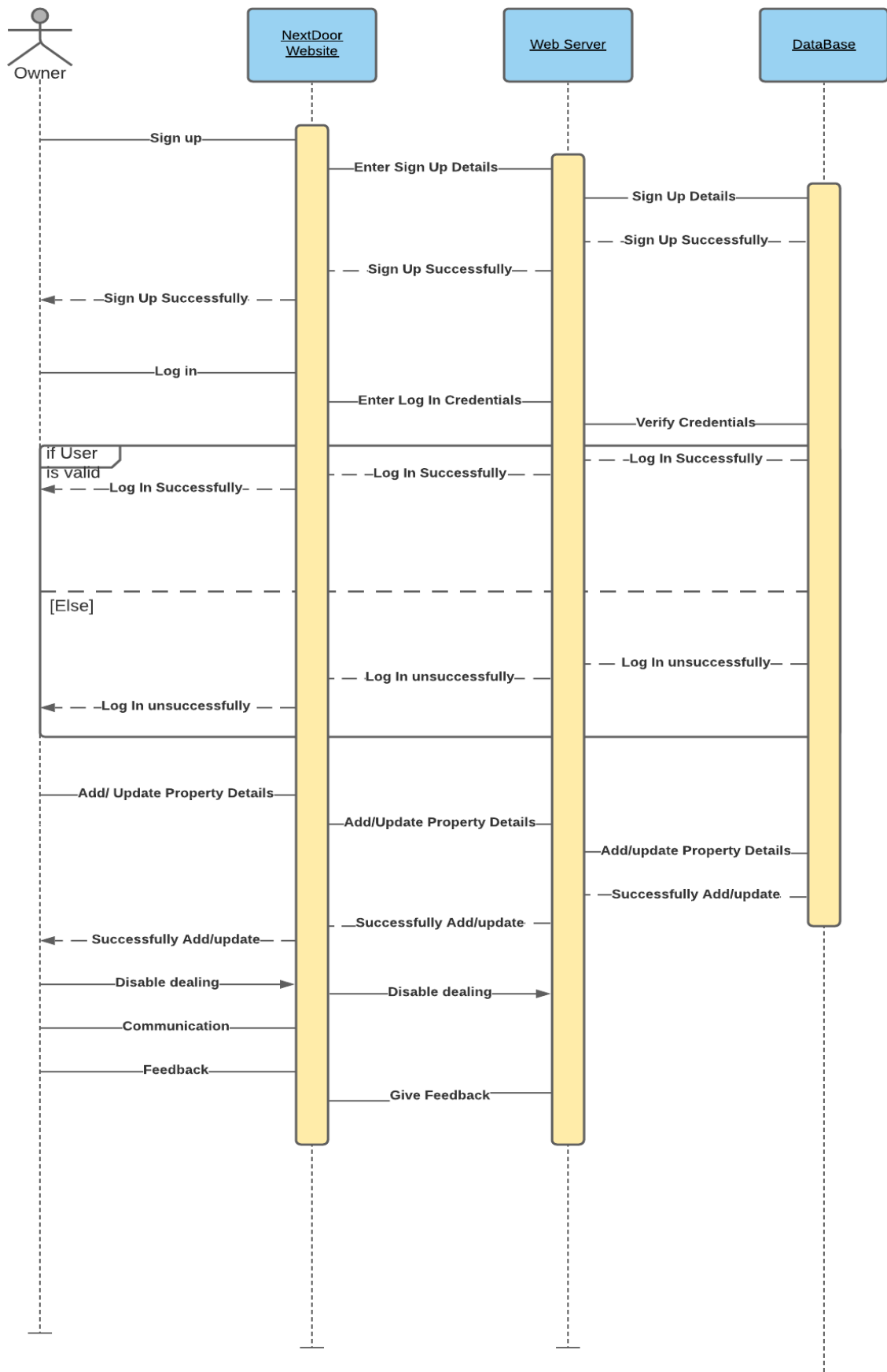
DFD Level 1



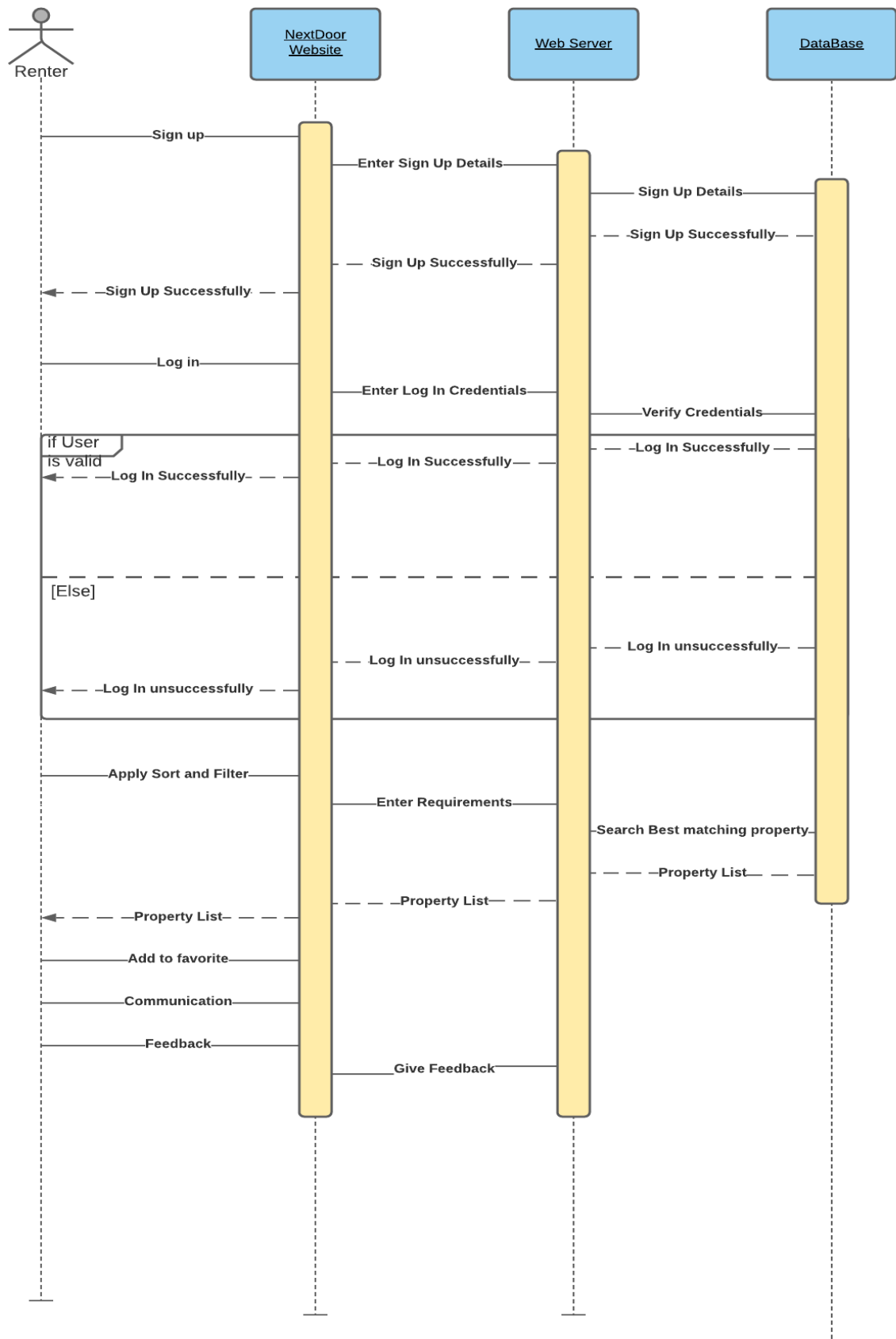
DFD Level 2



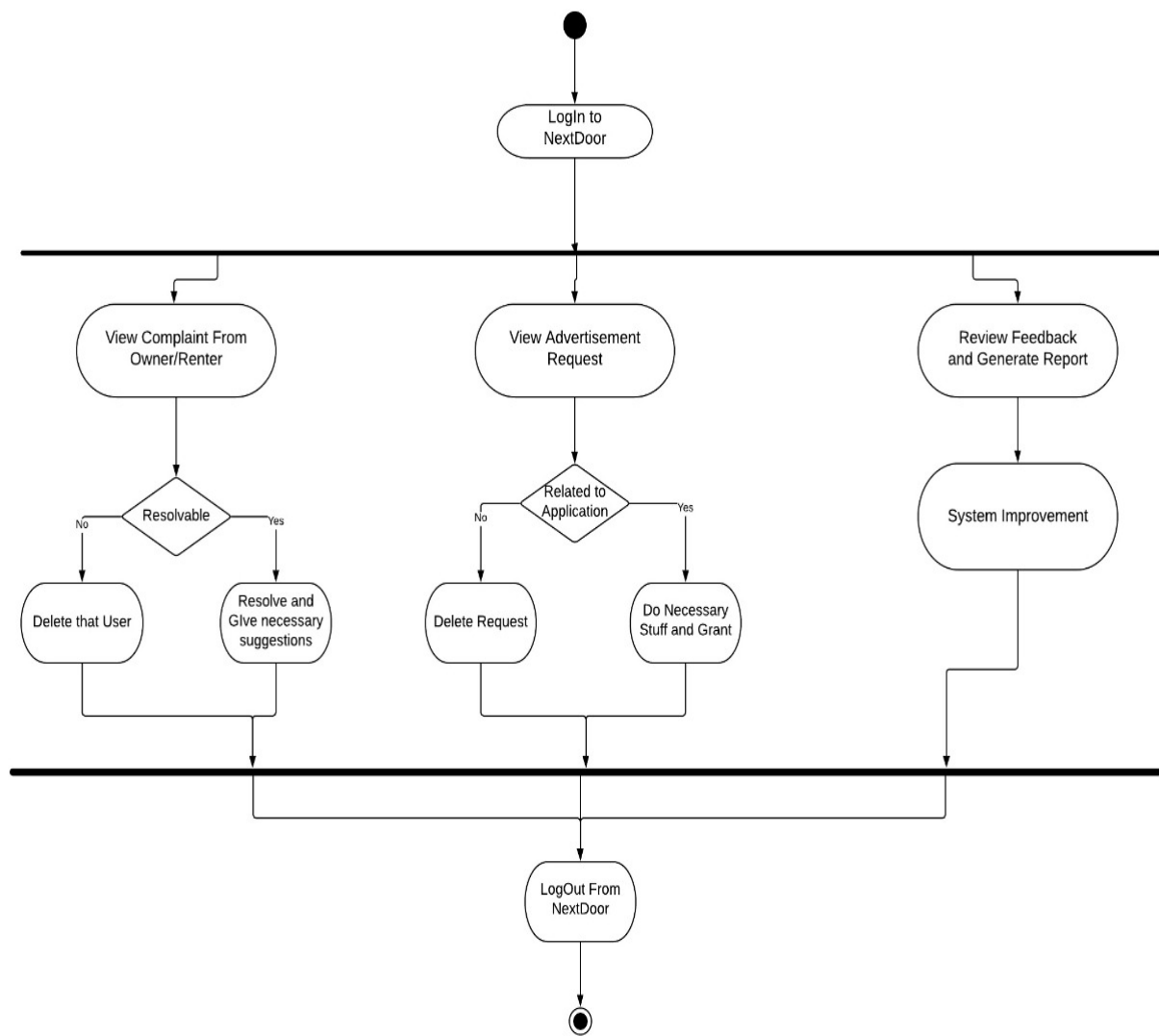
Sequence Diagram(Admin)



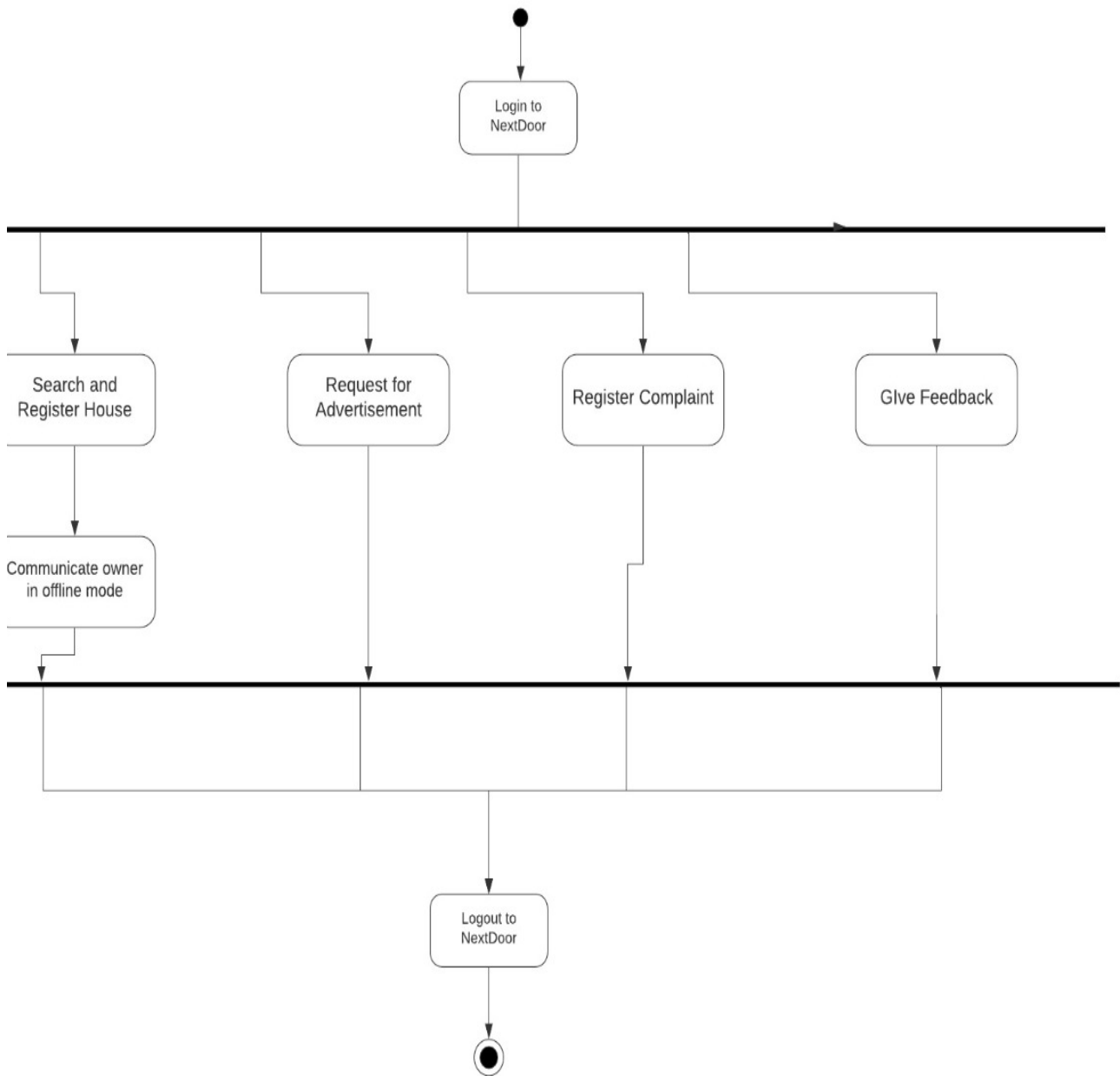
Sequence Diagram (Owner)



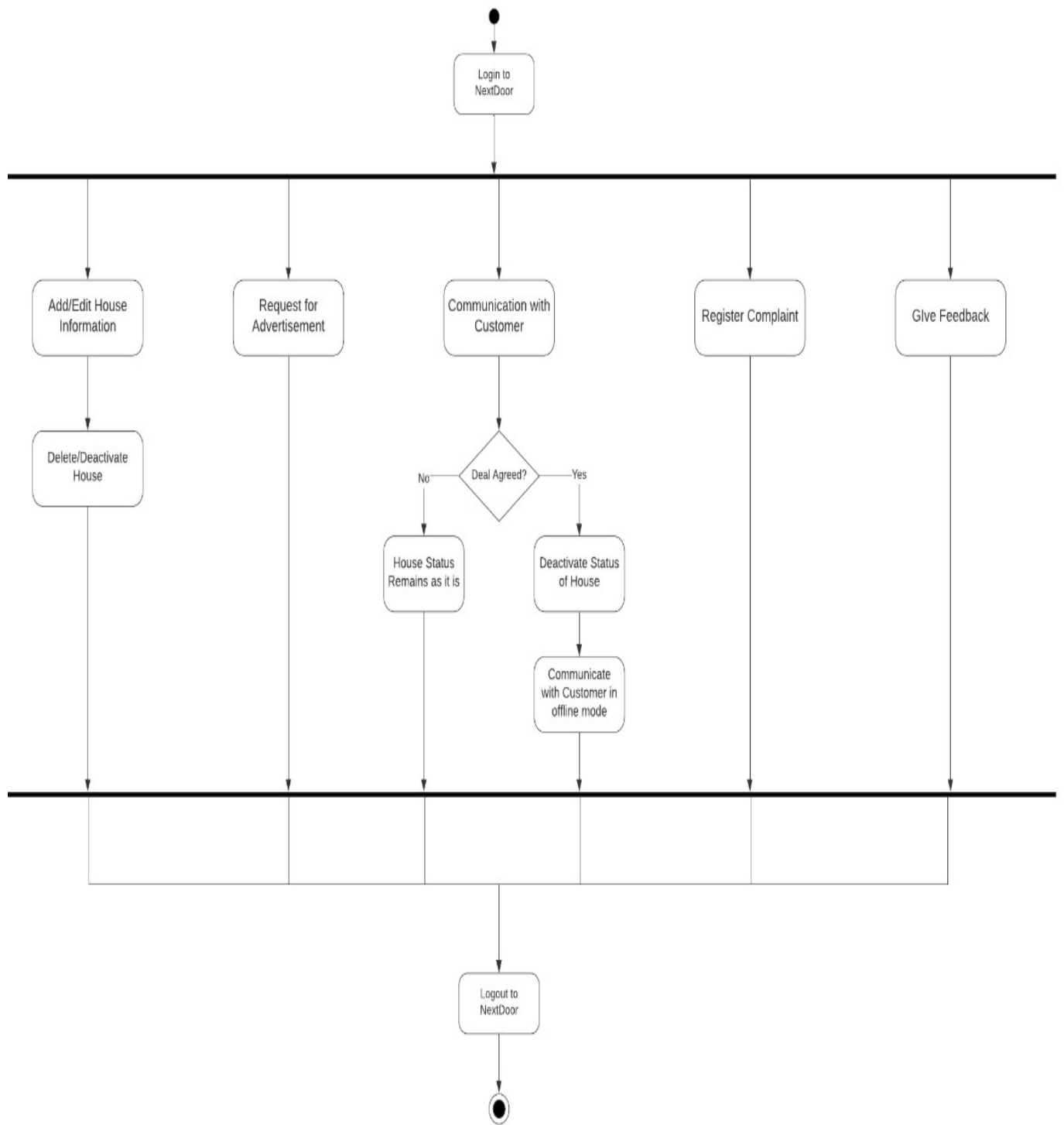
Sequence Diagram(Renter)



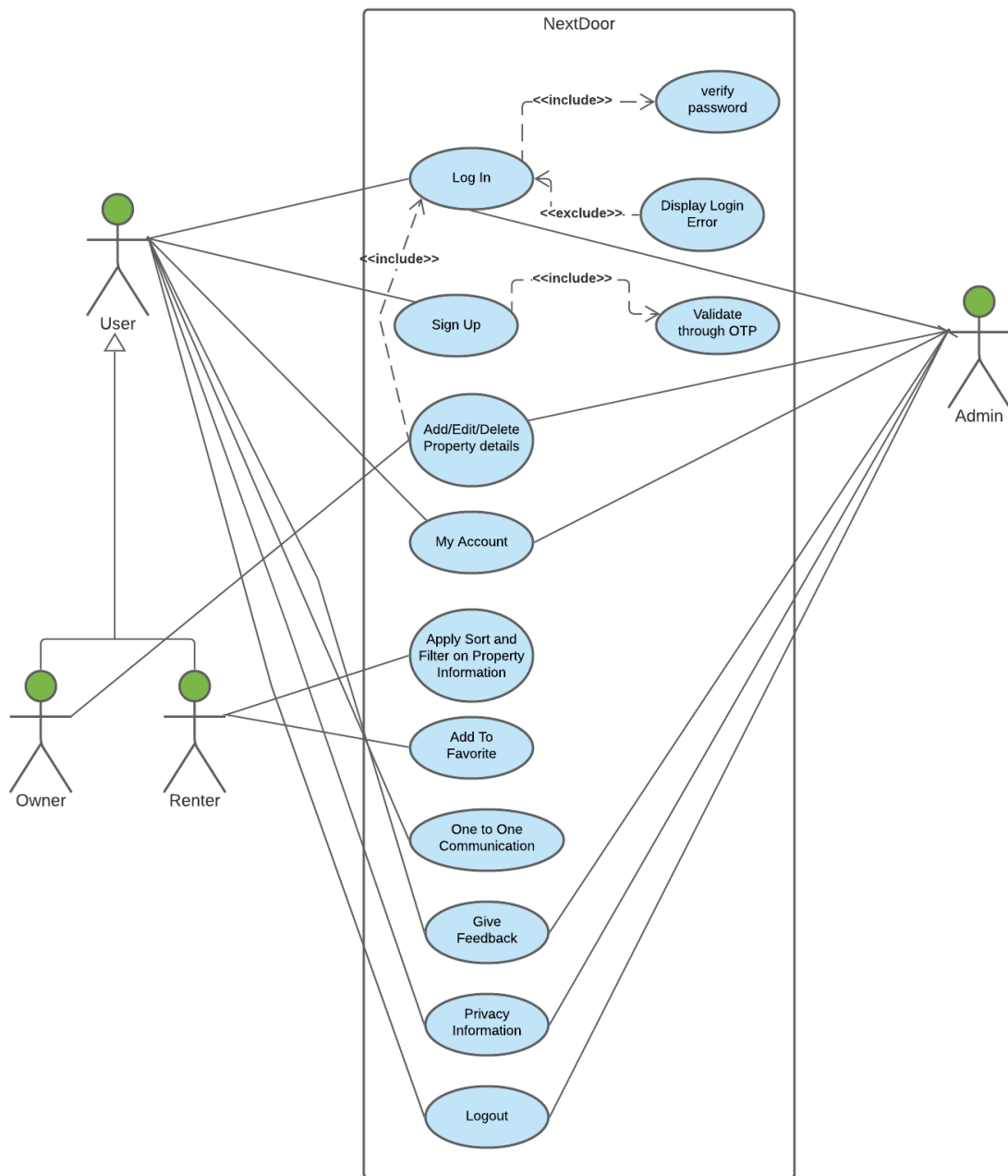
Activity Diagram(Admin)



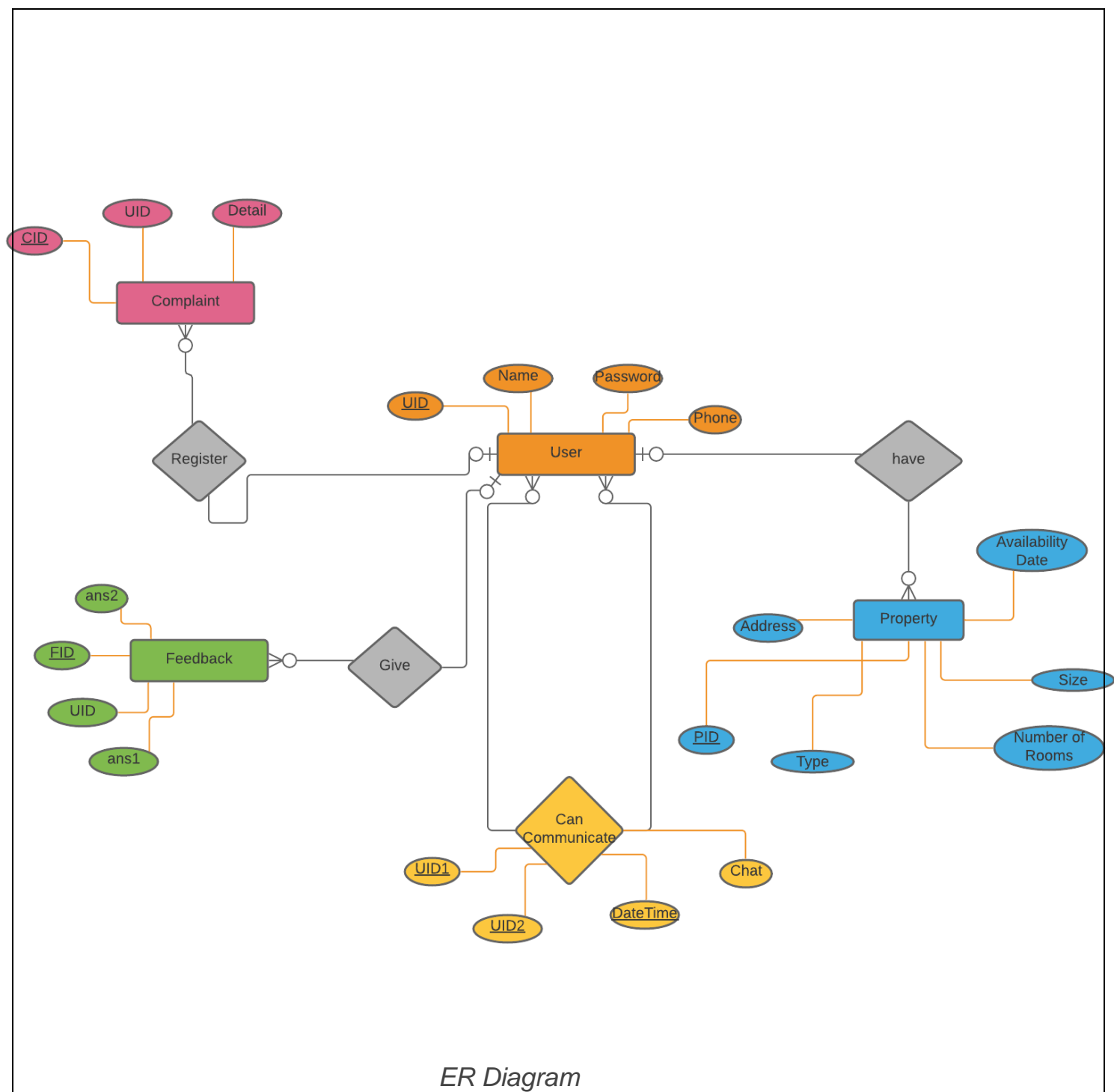
Activity Diagram(Renter)



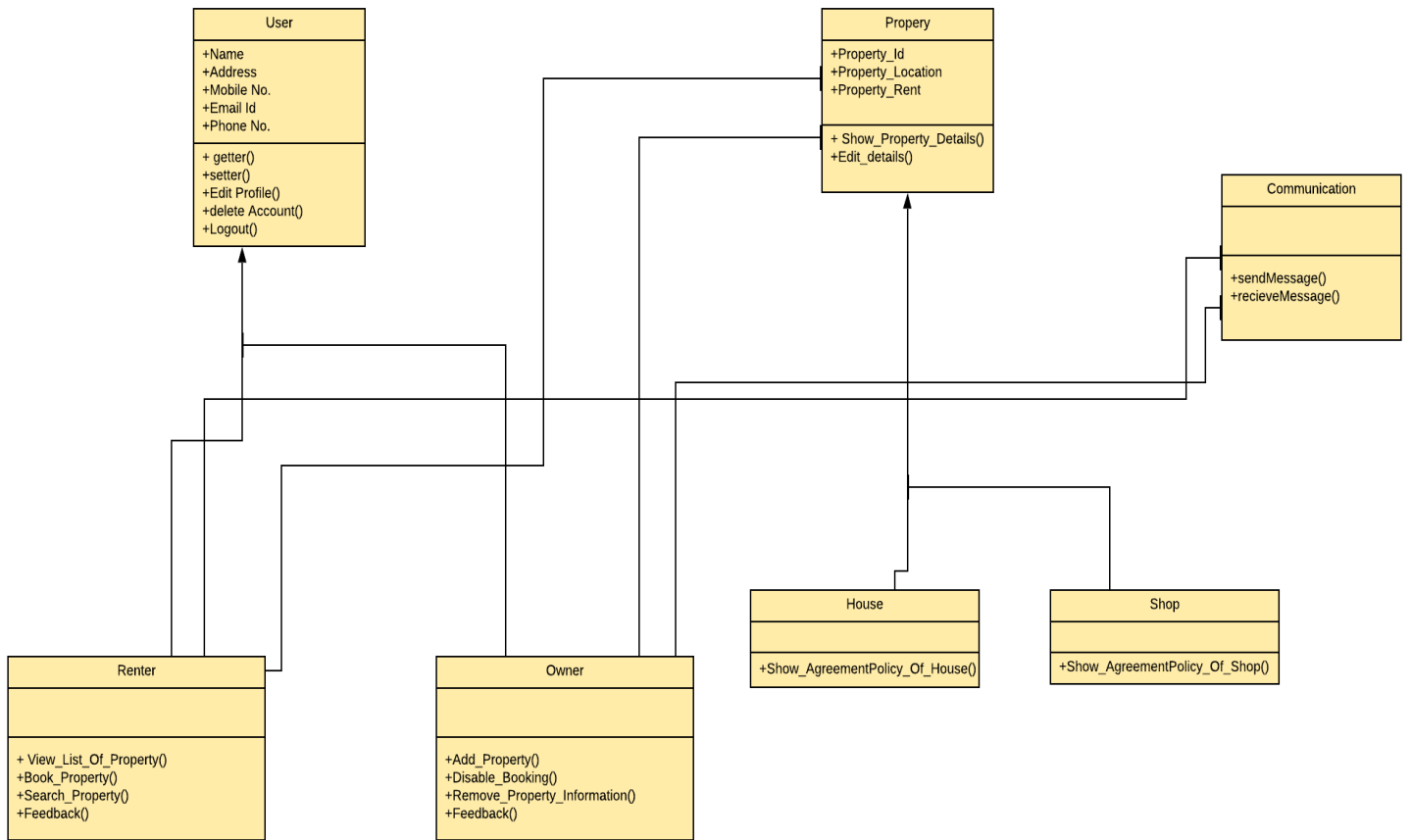
Activity Diagram(Owner)



Use Case Diagram



ER Diagram



Class Diagram

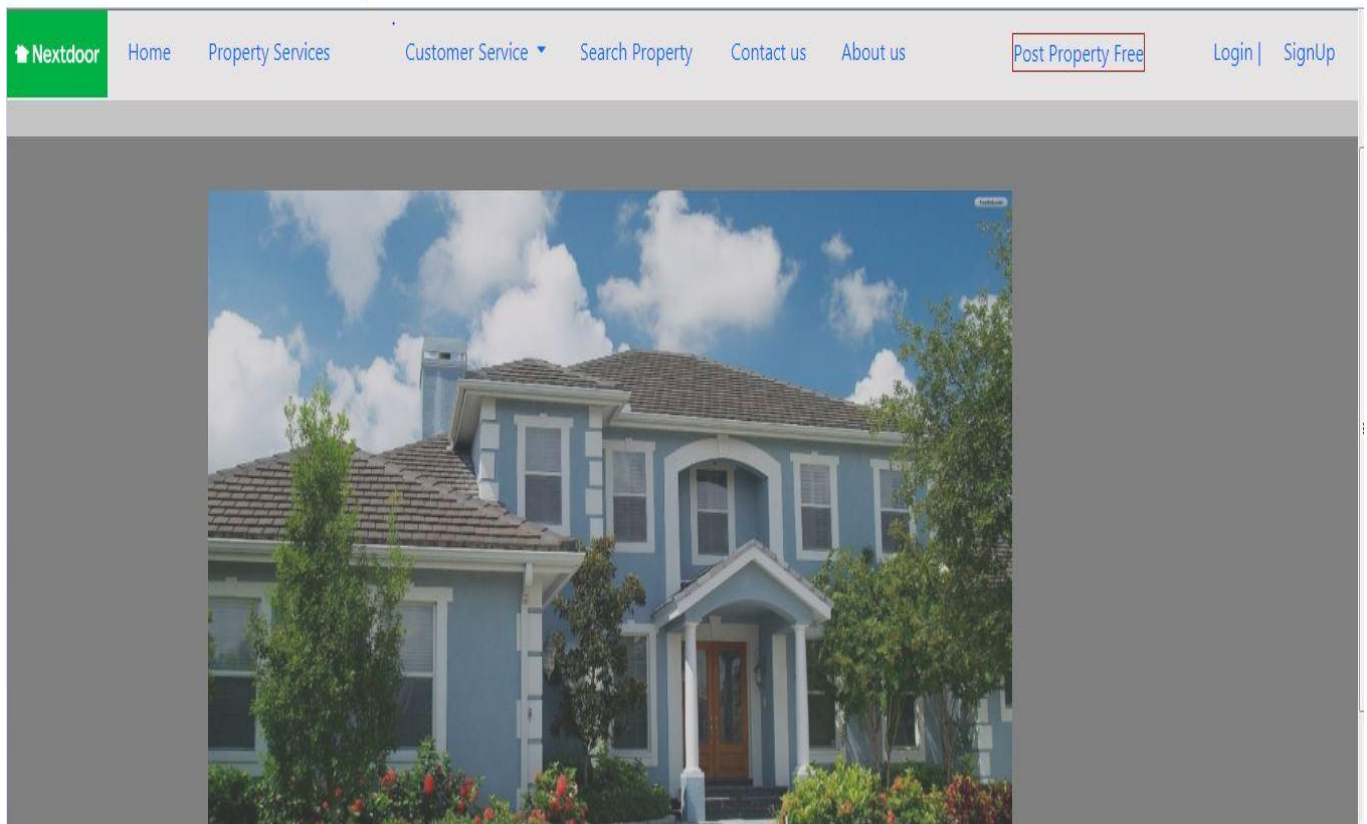
3.3 Testing Process

INPUT	OUTPUT	RESULT
Signup:- User enter name,email id and password	<ul style="list-style-type: none">▶ If user already exists show message and redirect to login page▶ Else redirect to home page of user module	Success
Login: user enters email id and password	<ul style="list-style-type: none">▶ If user is admin then redirect to admin module▶ If user is other than admin then redirect to user module▶ If credentials are invalid then show error message	Success
Add property details	<ul style="list-style-type: none">▶ Property details added successfully into database	Success
Search Property based on location and rent amount	<ul style="list-style-type: none">▶ Property will filter based on applying field and selected property will display on page	Success
Click on Property advertiesment in home page	<ul style="list-style-type: none">▶ Detailed Property description will display for user and User can also add to favorite that property for his/her future purposes and user can contact to owner through chat window.	success

Click on My Listing tab on navigation bar	<ul style="list-style-type: none"> ▶ All the Property which is added by that user will display. 	Success
Apply for agreement	<ul style="list-style-type: none"> ▶ Agreement form will display user can enter all agreement details 	Success

4. Results/Screenshots

1) Home Page



2) Login

Log In


Email ID *

Password *

Log In

[Forget Password?](#)

Don't have an account? [Sign Up](#)

A photograph of a wooden 'Room for Rent' sign mounted on a white wall. Below the sign is a red metal heart-shaped frame filled with many small, different colored padlocks. The sign and frame are flanked by two vertical teal-colored bars.

3) Signup

Sign Up

Your Name

Email Id

Password

Sign Up

[Allready have an account?](#)



4) Filter

Filter

location

select

Filter



2 BHK Flat

City:- Vadodara

Rent: 7000

Deposit: 5000



4 BHK Flat

City:- surat

Rent: 5000

Deposit: 10000



3 BHK Flat

City:- abab

Rent: 3000

Deposit: 6000




3 BHK Flat


City:- baroda

Rent: 4000

Deposit: 5000

5) My Property

 Home | Add Listing | Customer Services | Property Services | My Listings | My Account | My Favorites | Sign out




2 BHK Flat

Property Id:- 1061

Rent: 7000

Deposit: 5000

deleteupdate




3 BHK Flat

Property Id:- 1064

Rent: 4000

Deposit: 5000

deleteupdate



3 BHK Flat


Property Id:- 1067


Rent: 4000

Deposit: 6000

deleteupdate

6) My Wishlist

 Home | Add Listing | Customer Services | Property Services | My Listings | My Account | My Favorites | Sign out




2 BHK Flat

Property Id:- 1061

Rent: 7000

Deposit: 5000

Remove From Wishlist



3 BHK Flat

Property Id:- 1066

Rent: 4000

Deposit: 5000

Remove From Wishlist

7) Personel details

Account Information

Edit details

Full Name*

Chirag Modi

Email ID *

chiragmodi2207@gmail.com

Password *

.....

Change Password

Update

8) Agreement details

*Your agreement will be delivered within 7 working days post purchase.

Rent Agreement Home Delivery.



My Agreement

Delivery Address

Landlord's Address

la2,
la3,
surat,
450303

Tenant's Address

ta2,
ta3,
baroda,
890033

9) Property Services

Nextdoor

Home | Add Listing | Customer Services | Property Services | My Listings | My Account | My Favorites |

Sign out

Agreement Id: 17

Owner's Name: chirag Owner's Email Id: chiragmodi2207@gmail.com

Tenant's Name: kauhik Tenant's Email Id: kaushikhmt@gmail.com

View Agreement Delete Agreement

Agreement Id: 20

10) Complaint

Nextdoor

Home | Add Listing | Customer Services | Property Services | My Listings | My Account | My Favorites |

Sign out

Complaint Form

Please send us details about the incident you would like to report. Our Complaint Center will analyze your complaint and take the appropriate measures in order that the reported situation will not occur at any other time in the future.

Date of complaint

mm/dd/yyyy

Full Name

Full Name

Email

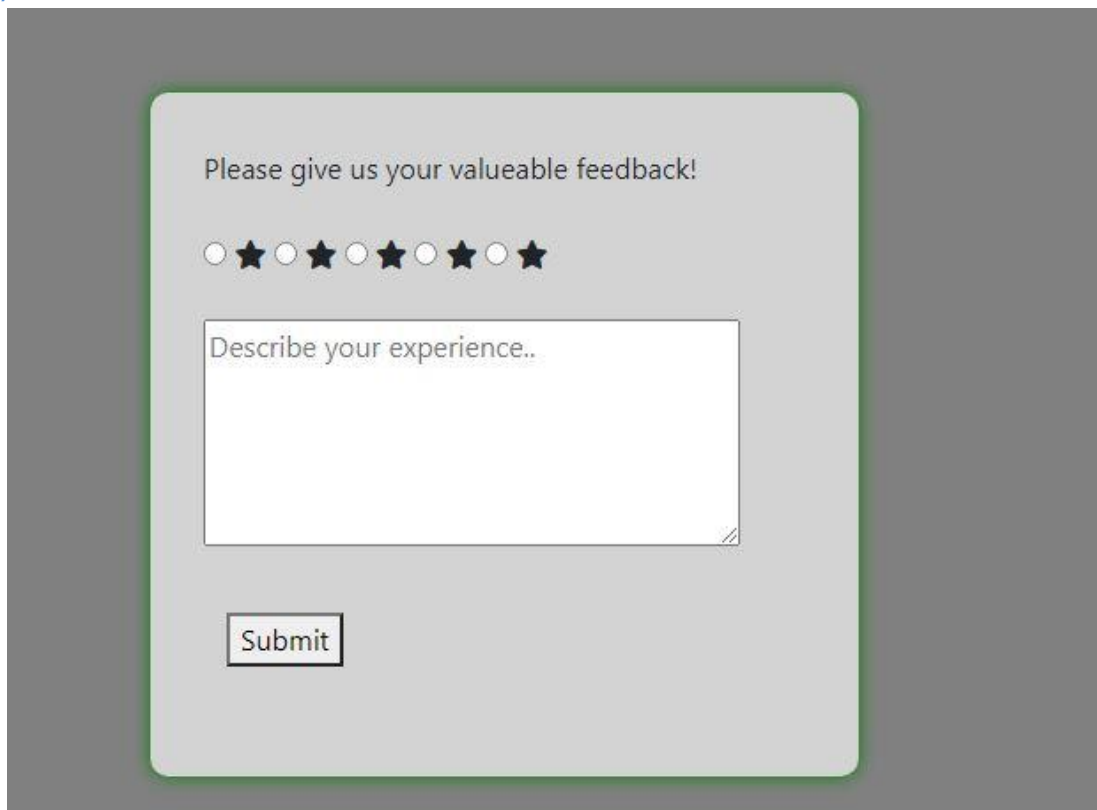
Mobile Number

Name of the person against which the complaint is filed:

Complaint details

Send

11) Feedback



Please give us your valueable feedback!

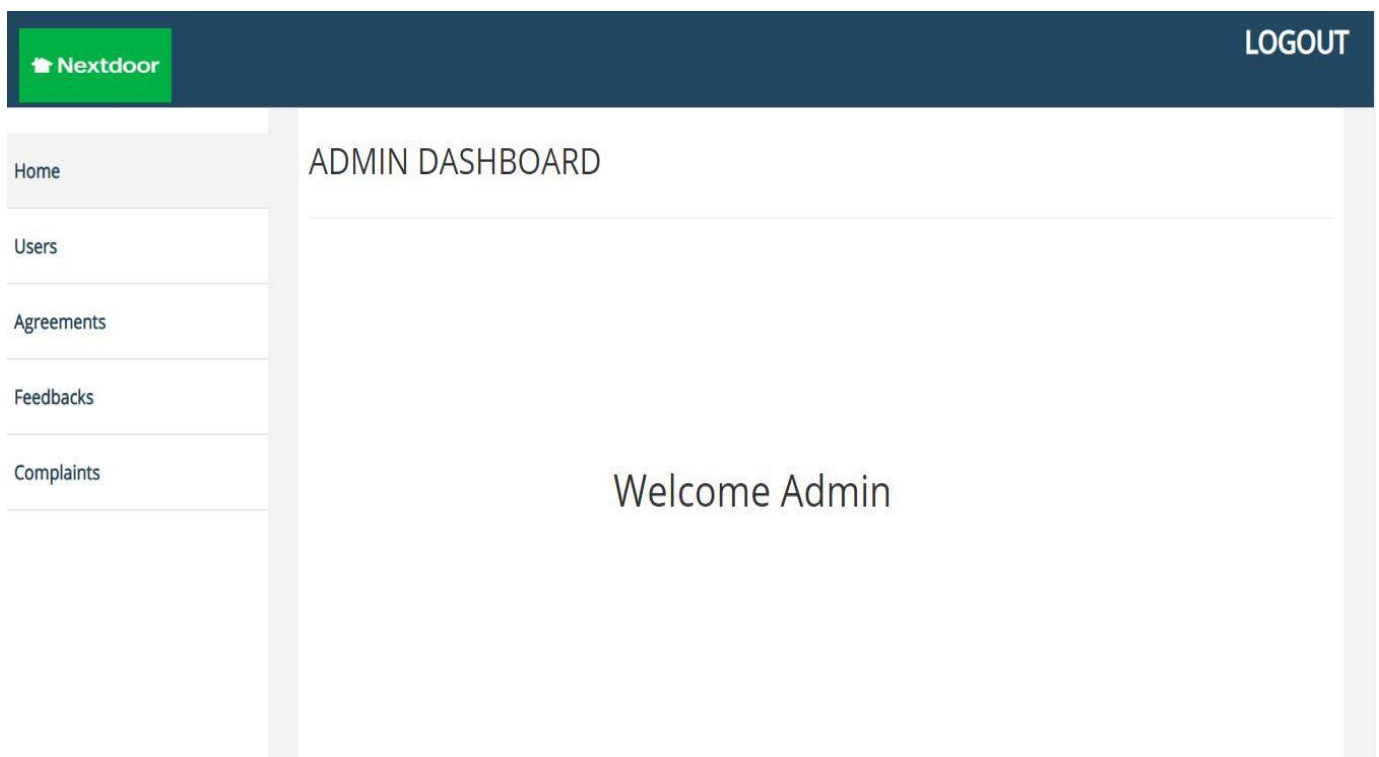
★ ★ ★ ★ ★

Describe your experience..

Submit

The feedback form is a light gray rounded rectangle with a green border. It contains a title, a five-star rating system, a text input field, and a submit button.

12) Admin dashboard



Nextdoor

LOGOUT

Home

Users

Agreements

Feedbacks

Complaints

ADMIN DASHBOARD

Welcome Admin

The admin dashboard has a dark blue header with the Nextdoor logo and a logout link. A sidebar on the left lists navigation options. The main content area displays the title 'ADMIN DASHBOARD' and a welcome message.

13) Admin- user tab

Nextdoor

LOGOUT

Home

Users

Agreements


Feedbacks

Complaints

Chirag Modi

chiragmodi2207@gmail.com

Assets




2 BHK Flat

Vadodara

Rent: 7000

Deposit: 5000




3 BHK Flat

baroda

Rent: 4000

Deposit: 5000



3 BHK Flat

baroda

Rent: 4000

Deposit: 6000

14) Admin- agreements

Nextdoor

LOGOUT

Home


Users

Agreements

Feedbacks

Complaints

Rent Agreement Home Delivery

 [Agreement](#)

Delivery Address

Landlord's Address

baroda,
jks,
vadodara,

Tenant's Address

170 tarun nagar chhani jakar
naka vododara,
jkl,

15) Admin-Complaints

Nextdoor

LOGOUT

Home

Users

Agreements

Feedbacks

Complaints

Date of complaint

2021-05-14

Full Name

chirag modi

Email

chiragmodi2207@gmail.com

Mobile Number

8200740703

Name of the person against which the complaint is filed:

kaushik

Complaint details

abc

Contact Complainant

16) Admin-User Contact

Nextdoor

LOGOUT

Home

Users

Agreements

Feedbacks

Complaints

Chirag Modi

chiragmodi2207@gmail.com

Message:

Send →

5. CONCLUSIONS

- ☞ Our system will help the people who are finding the houses/shops and dont want to involve those middle men and in the messy paperwork type of things. Our system will provide reliable filtering methods to find the house/shops to our users and will give them a full details about the property.
- ☞ Renters and owners need not to do any paperwork for the agreement work we will provide them to their location without involving their physical presence in the limited amount of time.
- ☞ Our system will ommit the middle men work and save money and time of both the users (owner and renter)
- ☞ As our application grows more owner will advertise houses/shops and renter will find their reliable property as per their convenience and also the renter user will find out very basic household services advertisement and also can advertise if they want to.

6. References:

❖ Front-end Designs:-

- <https://mdn.dev/>
- <https://www.w3schools.com/>
- <https://getbootstrap.com/>
- <https://codepen.io/>

❖ Back-end coding:-

- <https://howtodoinjava.com/>
- <https://beginnersbook.com/2013/05/servlet-tutorial/>
- <https://stackoverflow.com/>

❖ Drawing tools for Diagrams

- <https://www.lucidchart.com/>