



C0de Wiz4rdzzZz

# WARESPACE:

A WEB, MOBILE AND DESKTOP APPLICATION FOR FREE SPACE FINDING AND LISTING, WITH  
BUILT IN LOCATION PINNING AND MESSAGING

## GROUP MEMBERS

ASPE, EUGENE LANCE  
SMALIBAR, LIANA JOY  
VIBAR, REGINA JULIANE

## ADVISER

JOHN SIXTO SANTOS  
*INTEGRATIVE PROGRAMMING AND TECHNOLOGIES 2*

# INTRODUCTION

The client is a small business owner who has difficulties finding convenient, and reasonably priced storage for his goods. He states that his place is small, and it is not sufficient to store his products. Likewise, there are also individuals who find it difficult to make use of their extra space, leaving it to pile up dirt and dust. And aside from putting up expensive advertisements and posting their spaces on social media sites, they do not have an easier and more convenient way to market their spaces.

As such, this project aims to create a solution to the problems encountered by individuals who have vacant spaces and those in need of space. It provides hosts a way to market their properties by listing them in the application and for interested renters to easily see and access.



Code Wiz4rdzzZz

# MISSION STATEMENT

- A system that allows individuals who have extra storage space and wants to monetize their property to list their space for rent.
- A system that allows individuals who are in need of free space to locate/find the suitable place for them.
- A system that is easily accessible and usable for all regardless of computer experience.



Code Wiz4rdzzZz

# TECHNICAL OBJECTIVES

## Technical Objectives

- Create a Mobile and Web application that allows users to register an account.
- Create a Mobile and Web application that allows registered hosts to post their available spaces for rent.

## Performance Measure

- A registration and login module must be present.
- Users must be able to login and out of the system (Test 1).
- Must include a space recording module.
- Only registered host users can access the space recording module (Test 2.1, Test 2.2).



# TECHNICAL OBJECTIVES

## Technical Objectives

- Create a Mobile and Web application that allows registered renters to rent available spaces.

## Performance Measure

- Should provide a simple ecommerce module.
- Includes a simple and advanced database search module (Survey 1, Test 3.1).
- Provides a map showing the available spaces for rent based on the location of the renter (Survey 2, Test 3.2).



# TECHNICAL OBJECTIVES

## Technical Objectives

- Create a desktop application that easily allows hosts to monitor the status of the rented space and monitor all the current space listing they have.
- Create a front-end using usable and customizable 3rd party templates.

## Performance Measure

- Presence of a dashboard containing the lists of spaces for rent, renters, and duration of their stay (Survey 3).
- Usability survey results should at least have an "acceptable" rating (Survey 4).



# TECHNICAL OBJECTIVES

## Technical Objectives

- Create a module for users to edit their existing account information. i.e whether they are a "host" or a "renter" or their account password or their account name.

## Performance Measure

- The system must be able to change the data embedded in the database according to the data that the user wants to change (Test 4.1).
- Presence of "Switch to Hosting" and "Switch to Renting" button that allows users to easily switch user types (Test 4.2).
- In addition, it must also have a "Logout" button that logs them out of the application (Test 4.3).



# TECHNICAL OBJECTIVES

## Technical Objectives

- The web, mobile and desktop application must have minimal downtime.

## Performance Measure

- The server that the website is being hosted on must only have an average of 3 hours of downtime per month. This data is based on [websitesetup.org](http://websitesetup.org). This is to maximize the time that the website is accessible by all users.



C0de Wiz4rdzzZz

# SCOPE AND LIMITATIONS

- This project aims to provide individuals who need storage space and people with extra storage space with a solution to both of their problems through an application where they can list and find spaces suitable for them.
- The application caters to two types of users: the renter and the host. The host is able to list their extra spaces for rent through the application, while the renter can locate and choose any available spaces.
- Logging into a registered account will show the interface built for the renter, and to become a host, they can simply press a "switch to host" button in the application. To go back as a renter, the user can just press the "switch to renter" button in the user account setting module.
- It is available on three different platforms: web, mobile, and desktop.

# SCOPE AND LIMITATIONS

- The application will not be able to provide communication between the host and renter through the app, but it will provide the host's contact information.
- If the renter wants to check the site/space before renting, the system will not provide a schedule on when it is possible to do so. The host and renter must arrange the schedule themselves.
- The system will not be liable for any damage done to the property during the stay of a renter. All further action regarding this case will solely depend on the host's action.
- The system will not be able to provide security measures (e.g. cctv) for the safety of the items.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 1: Create a system that allows users to register an account.

## OPERATIONAL SCENARIO 1: User Identification

- There are instances where multiple users have the same name, same credentials or there may be multiple users accessing an application within the same computer. Normally, there will be no way of distinguishing between the different users, user a can act as user b and so on. Having users register an account makes it so that they have their unique identification within the application which helps not only the users but also the hosts and administrators differentiating who the users are



# CONCEPTUAL FUNCTIONAL MODEL

## OPERATIONAL SCENARIO 2: Users Needs to Log Out to Access Different Roles

In the instance that a user that is registered as a host, needed to rent a space, they are unable to do so if the account they have is registered only as a host account. Therefore only one account is needed to be registered. There should be a way for users to switch between viewing the application as a renter and viewing the application as a host.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 2: Create a Mobile and Web application that allows registered hosts to post their available spaces for rent.

## OPERATIONAL SCENARIO 1: Minimizing Excess Space/Wasted Free Space

There exists a certain group of people that is an owner of a certain space, may it be a garage, a vacant apartment or some sort of warehouse that are currently not being used by anyone and they themselves have no use for the space. To minimize the spaces that are being wasted, the application provides a way for these owners to post their own spaces to the application which are then visible to the public. In that way, someone interested in renting their space may take notice and contact the owner, therefore benefitting both the owner and the renter.



# CONCEPTUAL FUNCTIONAL MODEL

## OPERATIONAL SCENARIO 2: Advertising Spaces for Rent

There also exists a group of people who want their spaces to be rented, the likes of boarding houses, apartments, hotels and other similar spaces but cannot find a way to find renters for various reasons. One could be that they are overshadowed by other more known spaces for rent. The application then can serve as an avenue for them to advertise their own space for rent. They can provide the necessary information such as the location, the price, pictures of the space. This way, they may gain renters who are specifically interested in their space.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 3: Create a Mobile and Web application that allows registered renters to rent available spaces.

## OPERATIONAL SCENARIO 1: Renters Looking for Temporary Lodging

Students, Workers, Tourists and other groups of people who are not residents of a specific location and are just either visiting or they have a business in the area are usually searching for places that they temporarily stay in. The application can provide them information on the available spaces that they can lodge on and the renters can easily identify the spaces that are fit for their specific condition. If they are on a tight budget, they can search the available spaces within a specific range. If they need to lodge in a specific area, they can easily search through the available spaces using the map function of the application.



# CONCEPTUAL FUNCTIONAL MODEL

## OPERATIONAL SCENARIO 2: Small Business Owners Looking for Temporary Storage

Since most small businesses are just starting out, they often lack the space needed to store their goods. They also often lack the proper budget to buy a proper storage warehouse and most spaces that are available are too big for the small business that they currently have. In order to solve this particular problem, the application provides an easy way for them to find a location that is suitable for their business which they can use as a temporary storage for their goods until they find or buy a more dedicated space for storage.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 4: Create a desktop application that easily allows hosts to monitor the status of the rented space and monitor all the current space listing.

## OPERATIONAL SCENARIO 1: Keep Tabs on Listed Spaces

If a host has multiple spaces for rent, it can be quite confusing and takes an extra effort in keeping tabs on all of the spaces. They might get confused as to which spaces are rented and which spaces are available. The desktop application removes the need for manual checking of the spaces that an owner has and instead provides a centralized place to access and monitor the spaces that an owner has listed or are currently being rented.



# CONCEPTUAL FUNCTIONAL MODEL

## OPERATIONAL SCENARIO 2: Minimize Free Space Downtime

If a particular space that was listed by a host already arrived at the end of the renter's duration of stay, they want to list it again as available as soon as possible. However, taking down the listing and posting it again is inconvenient and can increase the downtime of the availability of the space for rent. In the desktop application the host can easily mark the listing they have as rented and they can set it if they want to automatically mark it as available once the duration of stay of the renter has ended. This minimizes the downtime of the space hosts have for rent.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 5: Create a front-end using usable and customizable 3rd party templates.

## OPERATIONAL SCENARIO 1: User Friendly

Applications with confusing user interface and design often leads to less users using the application. Therefore, the front-end of the application affects the motivation of users to keep using the application. Users must be able to easily recognize and navigate the interface of the website, mobile and desktop application. In addition, the users using the application should easily adapt and learn the interface.

## OPERATIONAL SCENARIO 2: Interchangeable Interface

If a user is already familiar with the interface of the mobile app, then using the web app and the desktop app should pose no problem and vice versa.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 6: Create a module for users to edit their existing account information. i.e whether they are a “host” or a “renter” or both, their account password or their account name.

## OPERATIONAL SCENARIO 1: Misinput/Typographical Error

If a user at the time of registration has made a mistake on their credentials and was not able to change it, the only way for them to fix it is to create a new account with the correct credentials. This poses problems. (1) It is inconvenient to create an entirely new account and repeat all the steps needed to correct a single mistake. (2) There is a waste of data as the account that will not be used will still exist within the database. To solve this, there must be a way for users to change their credentials if it is necessary to do so.



# CONCEPTUAL FUNCTIONAL MODEL

## OPERATIONAL SCENARIO 2: Lost Phone Number/Change of Contact Method

In the instance that a user loses their phone number or needs to change their contact method, they should be able to do so as if only outdated information is on their account, possible renters will not be able to properly contact the host and vice versa.



# CONCEPTUAL FUNCTIONAL MODEL

Technical Objective 7: The web, mobile and desktop application must have minimal downtime.

## OPERATIONAL SCENARIO 1: Unforeseen Emergency

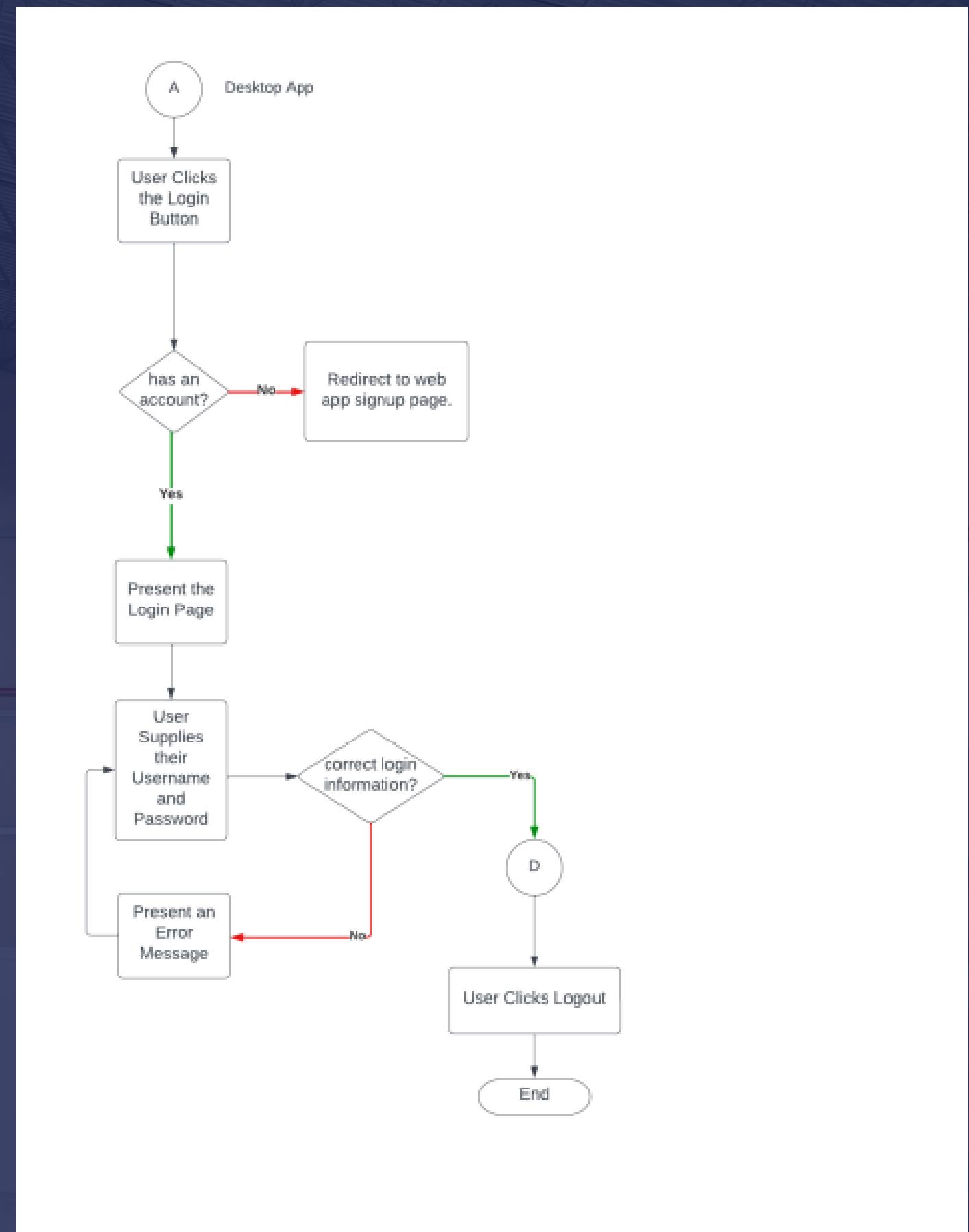
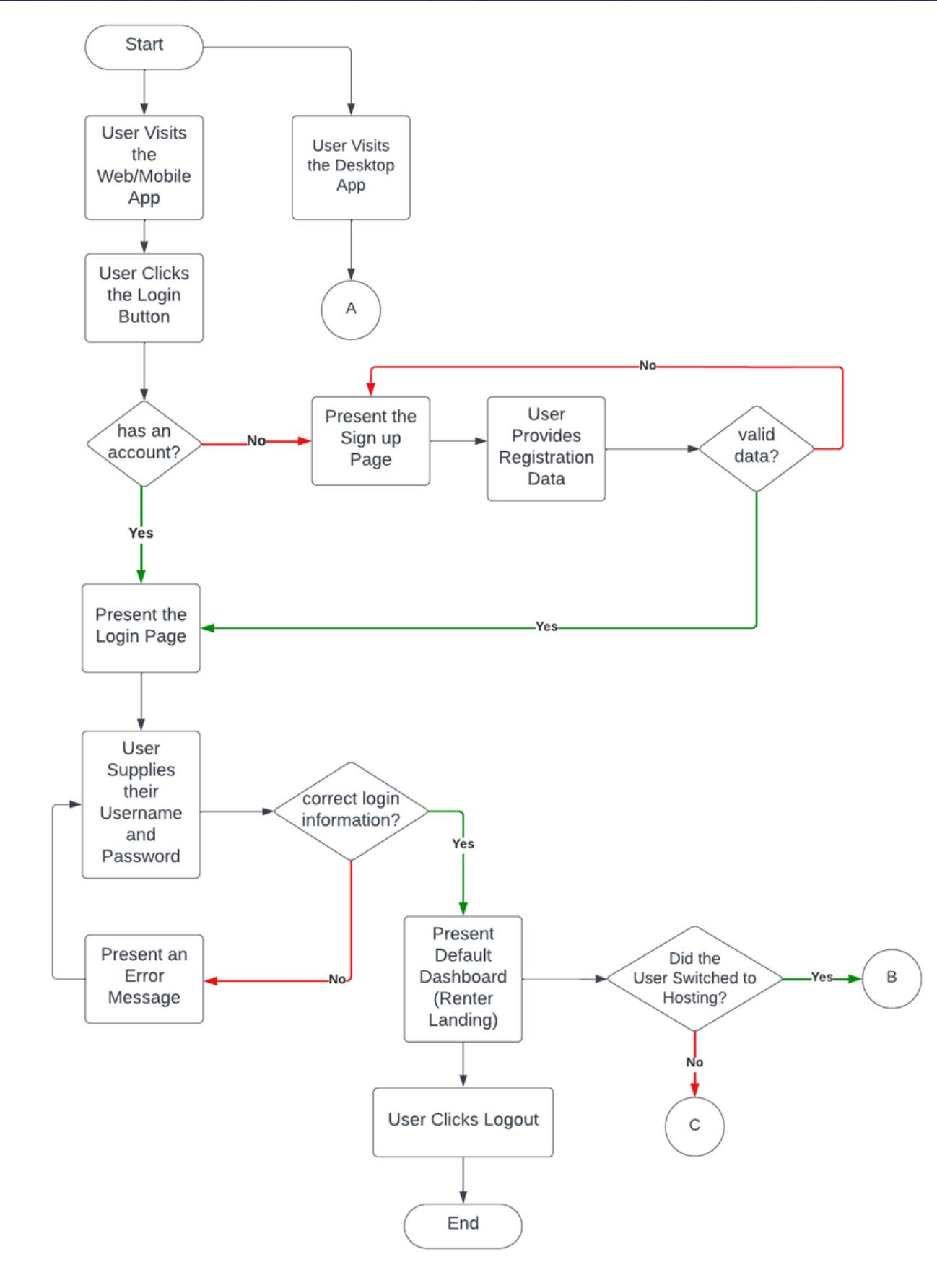
If in the instance there is someone suddenly needing a space to rent in the middle of the night they must be able to access the application. This also applies to any time of the day, users must be able to access the application whenever they need to do so. In order to achieve this, the application itself must have minimal downtime and if there will be a downtime, there should be an announcement to all users notifying them beforehand i.e for maintenance.

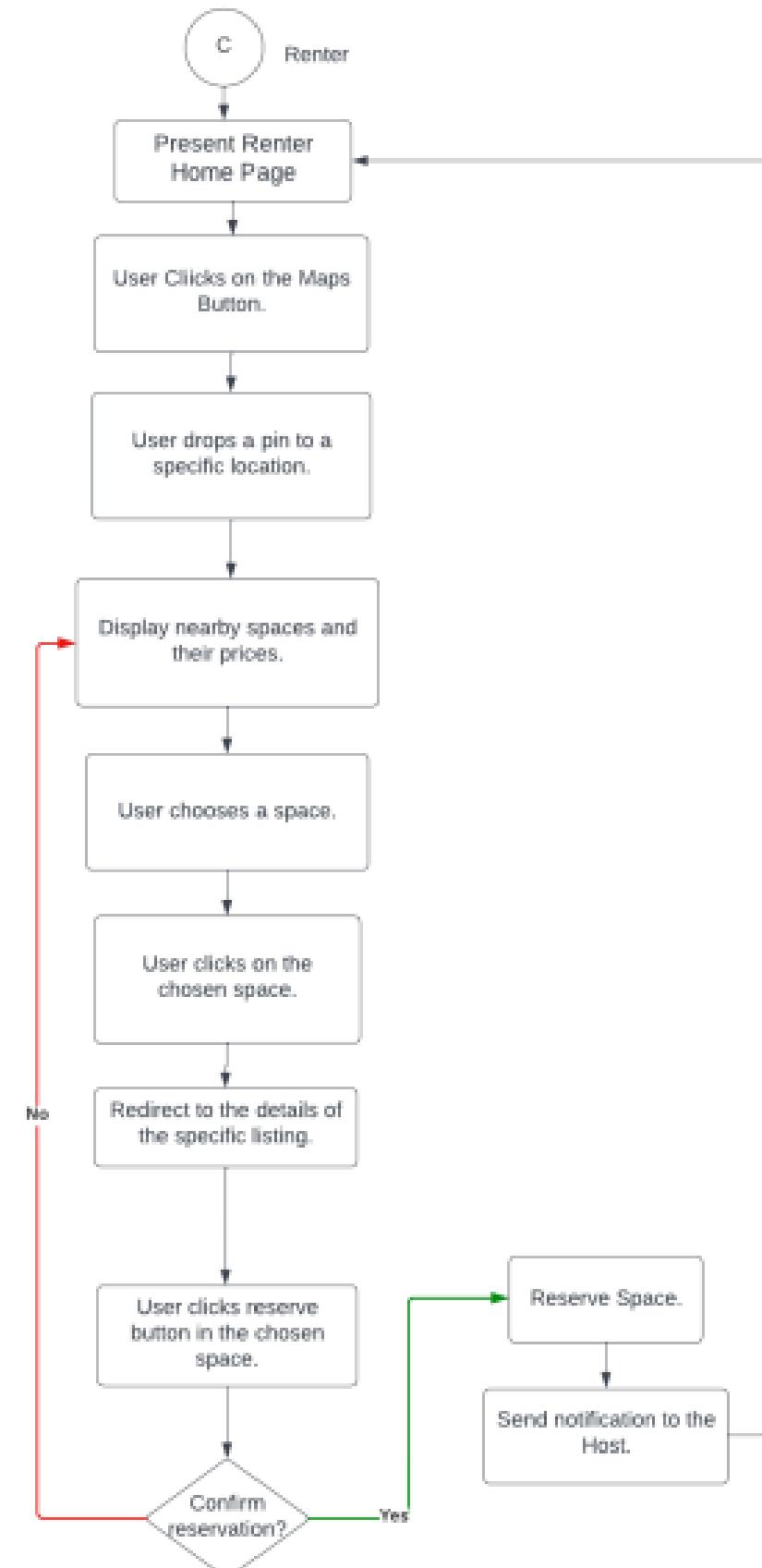
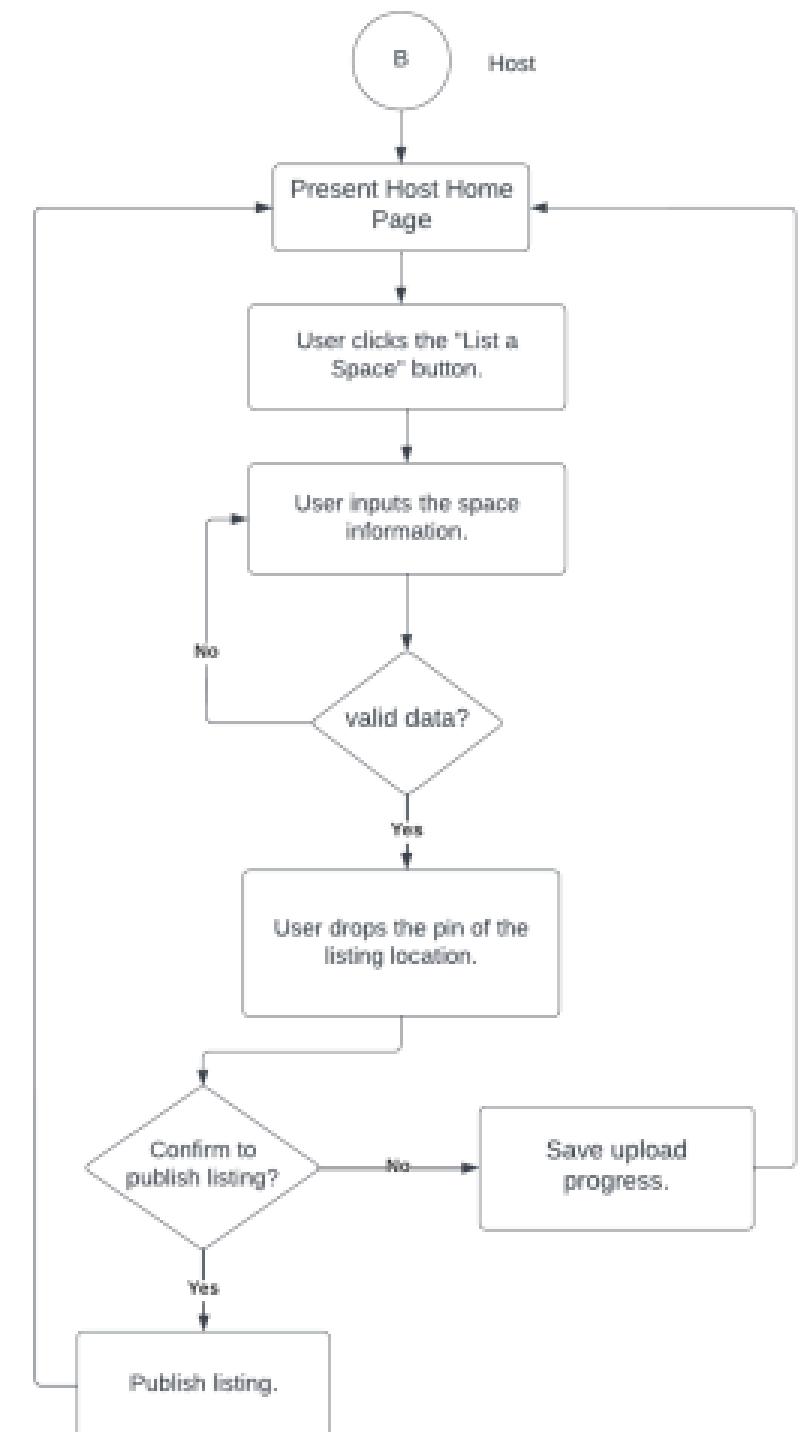


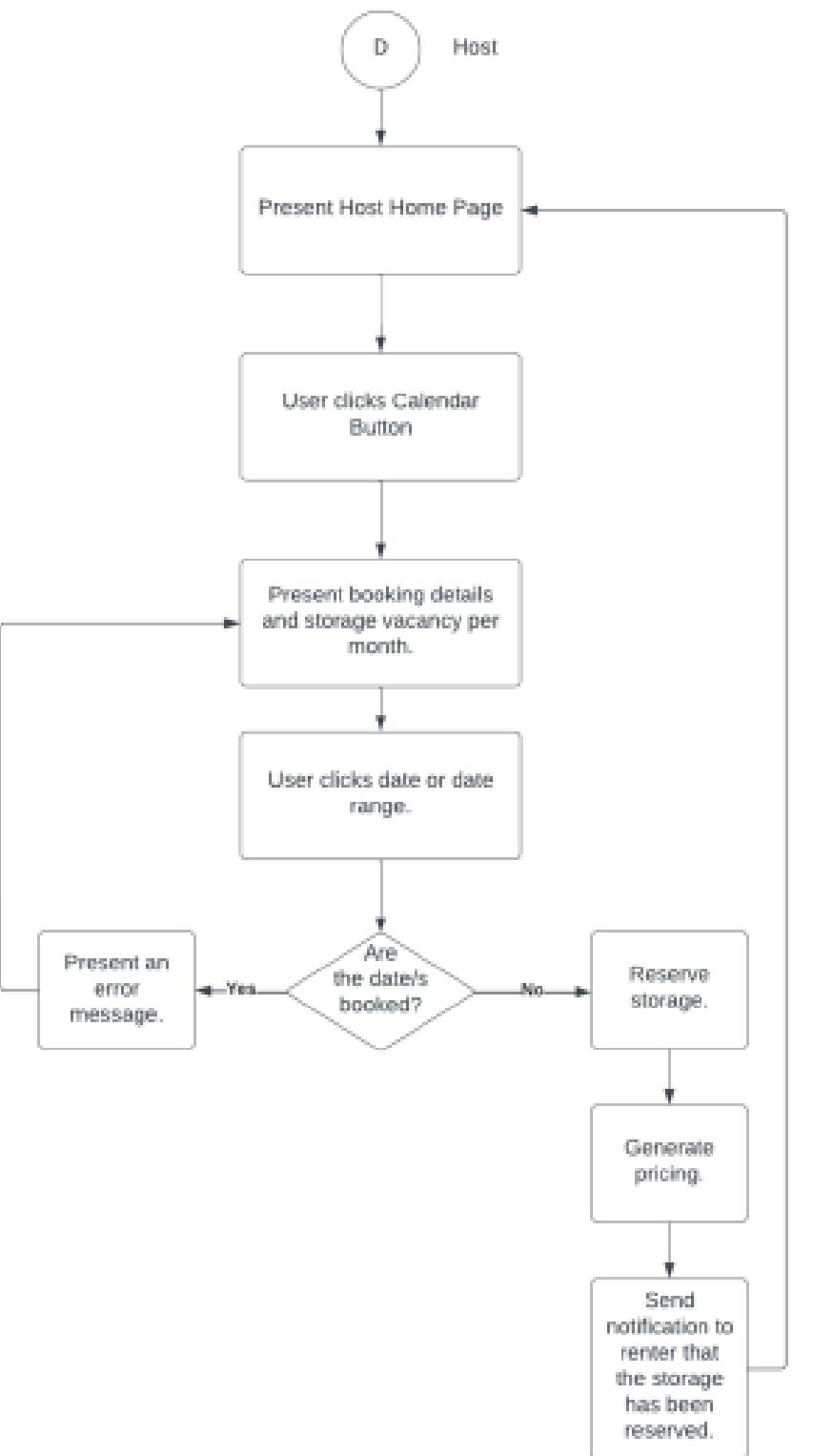


C0de Wiz4rdzzZz

# SYSTEM ACTIVITY DIAGRAM



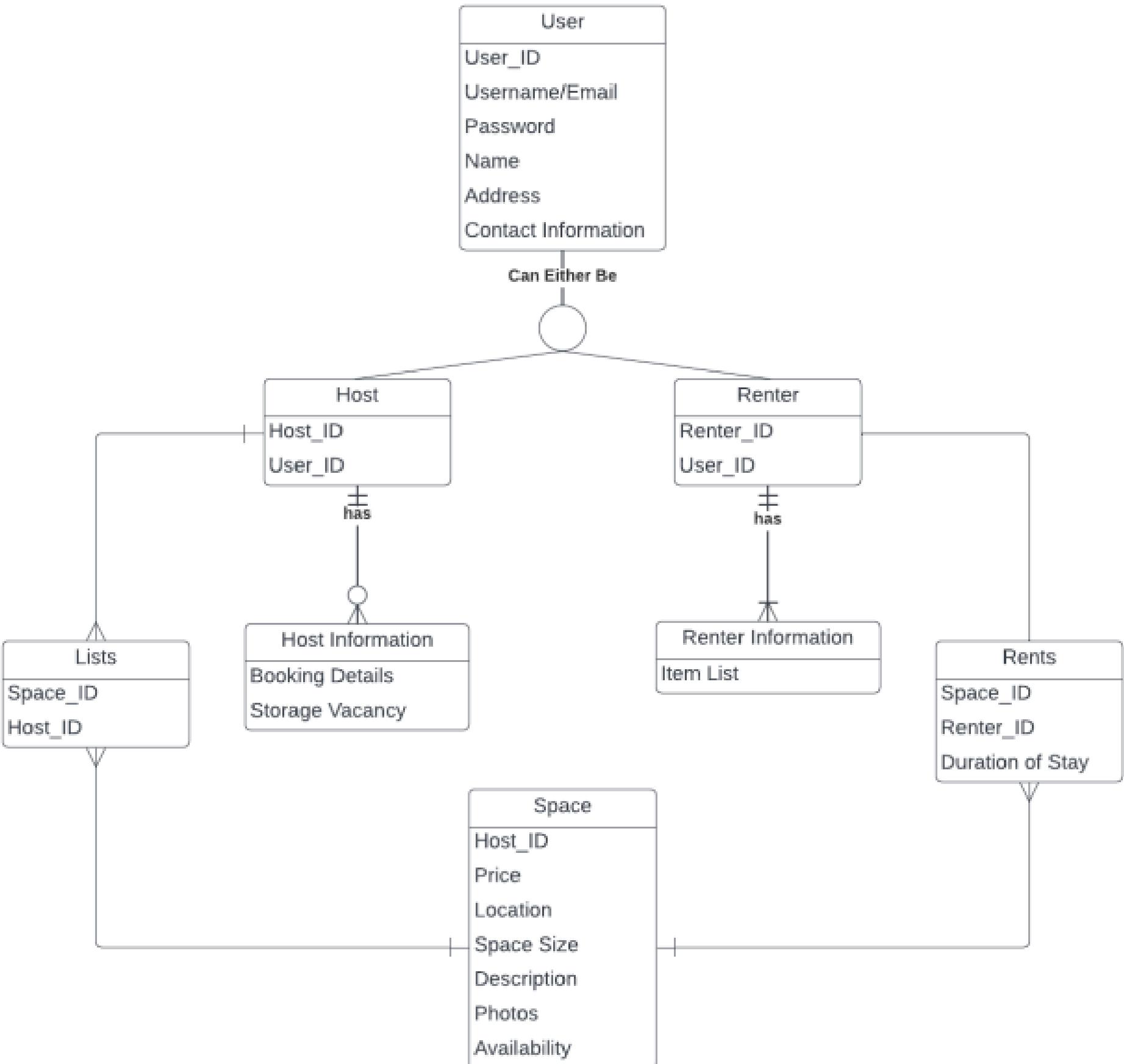






C0de Wiz4rdzzZz

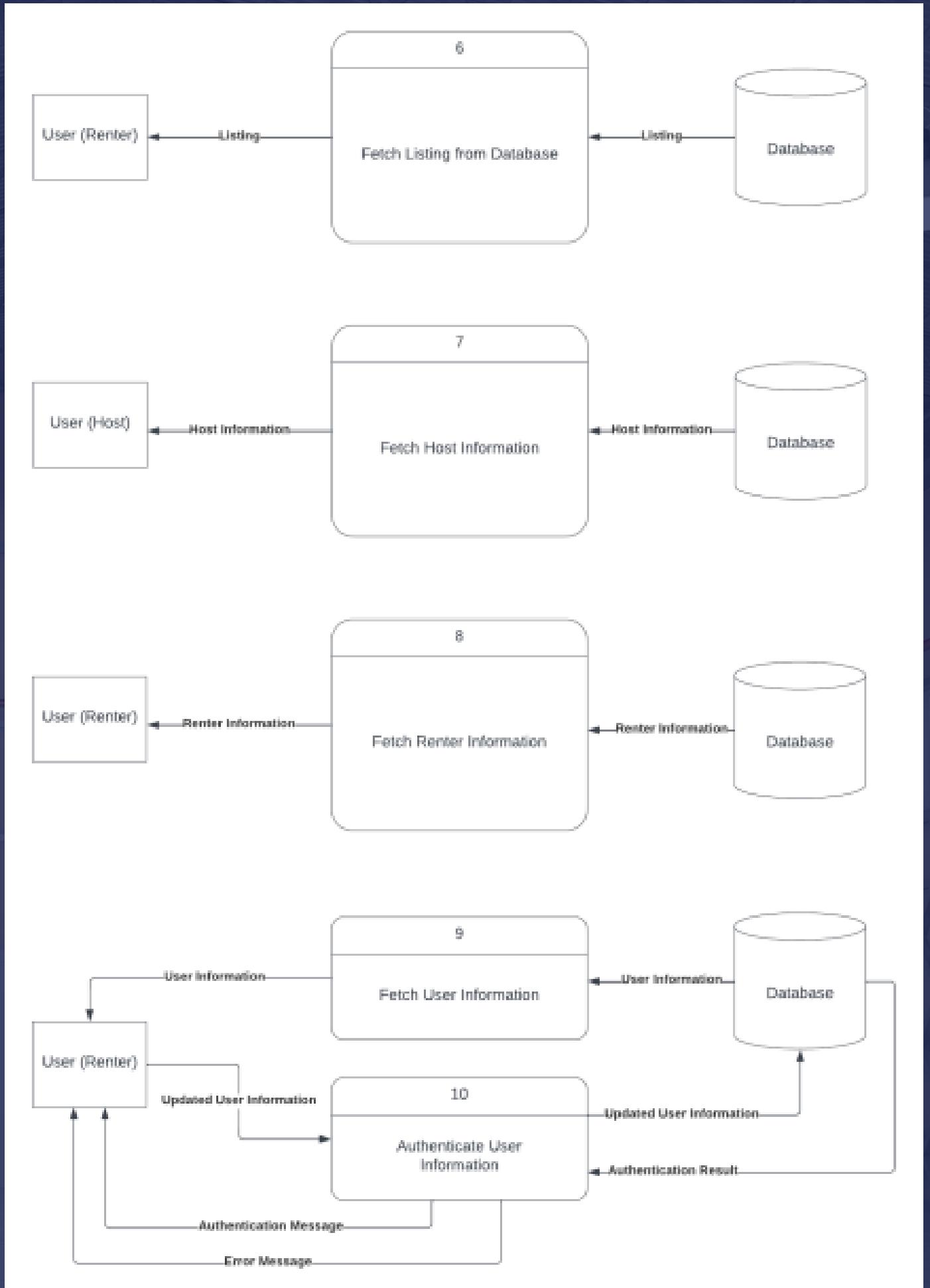
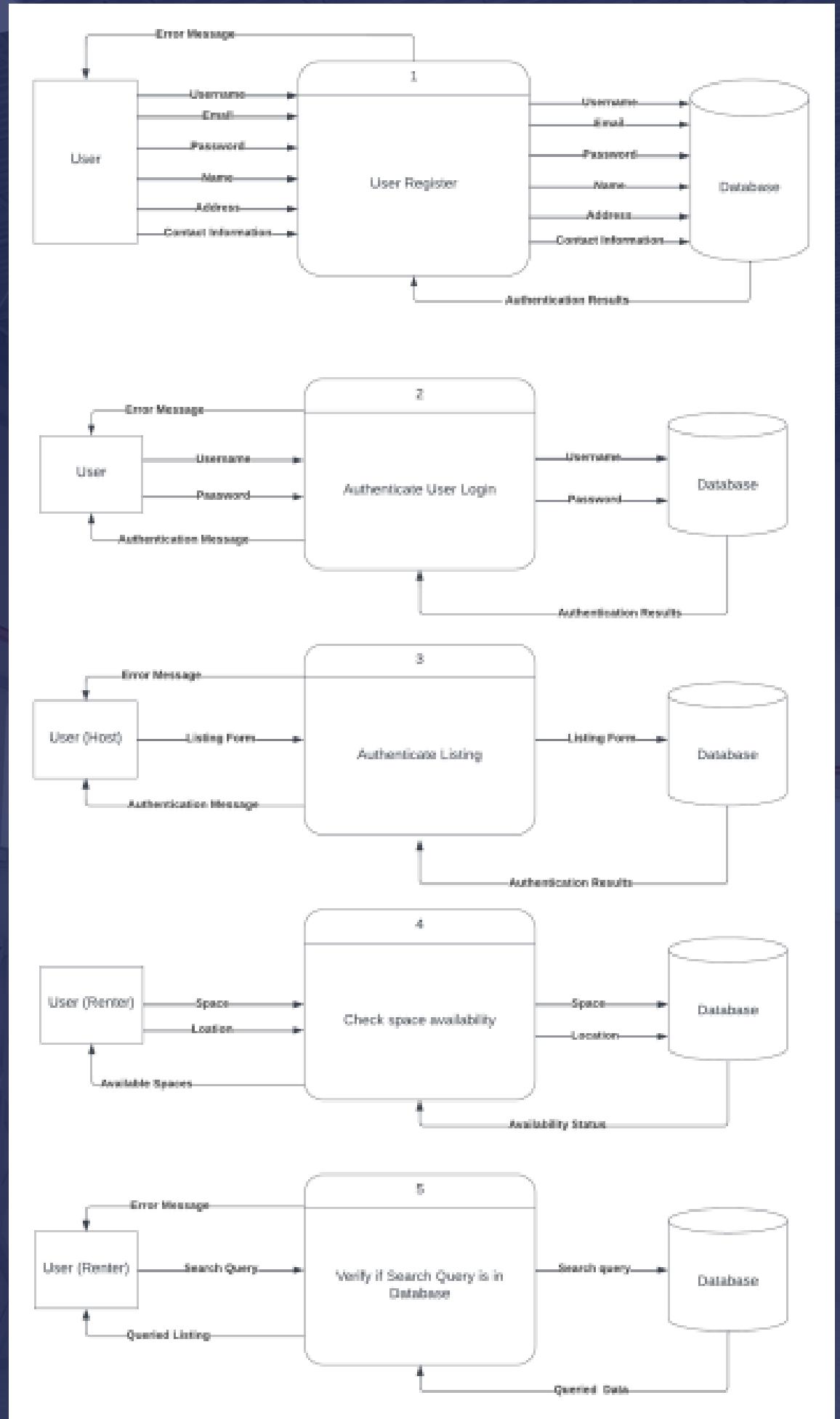
# ENTITY RELATIONSHIP DIAGRAM





C0de Wiz4rdzzZz

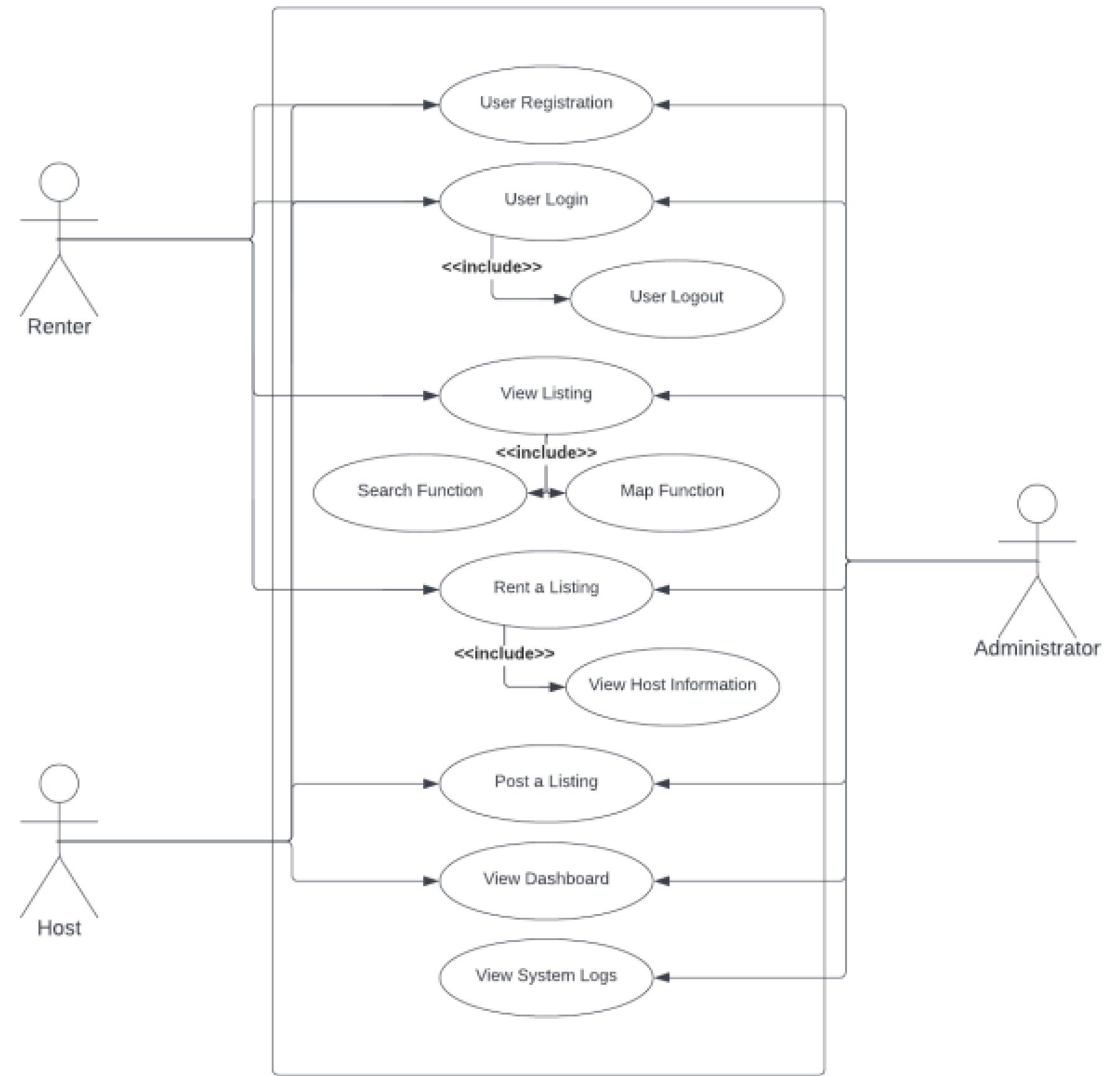
# DATA FLOW DIAGRAM





C0de Wiz4rdzzZz

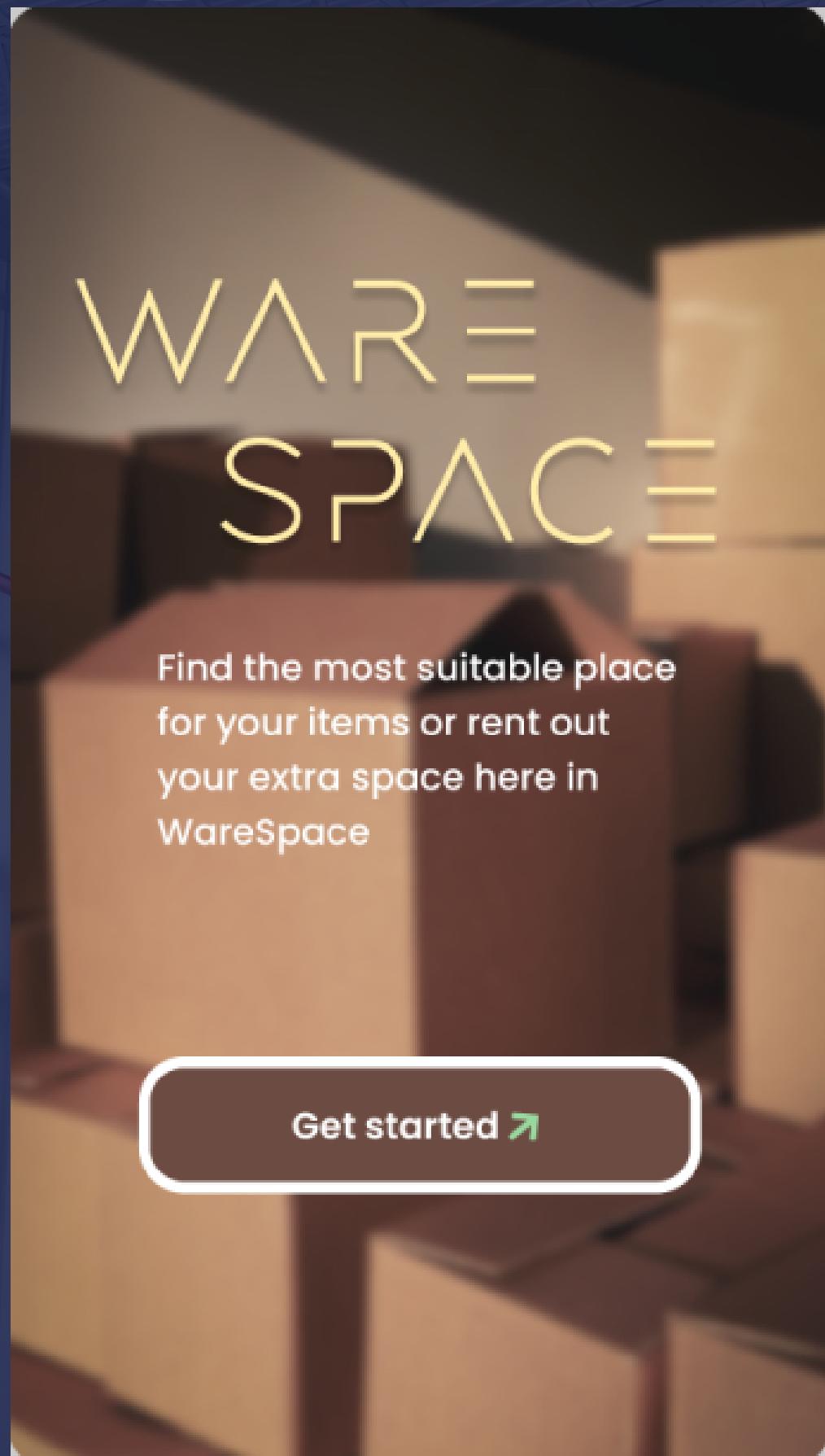
# USE CASE DIAGRAM





C0de Wiz4rdzzZz

# MOCK SCREENSHOTS



Sign up

Phone

+234 908 546 4322

Username

Inmop

Password

\*\*\*\*\*

Confirm password

\*\*\*\*\*

By signing in you agree to our [Terms of Service](#) and [Privacy Policy](#).

Let's go

or login with

All Categories

Browse for anything...

Apartments

Garage

Room

Attic

Storage

Category



C0de Wiz4rdzzZz

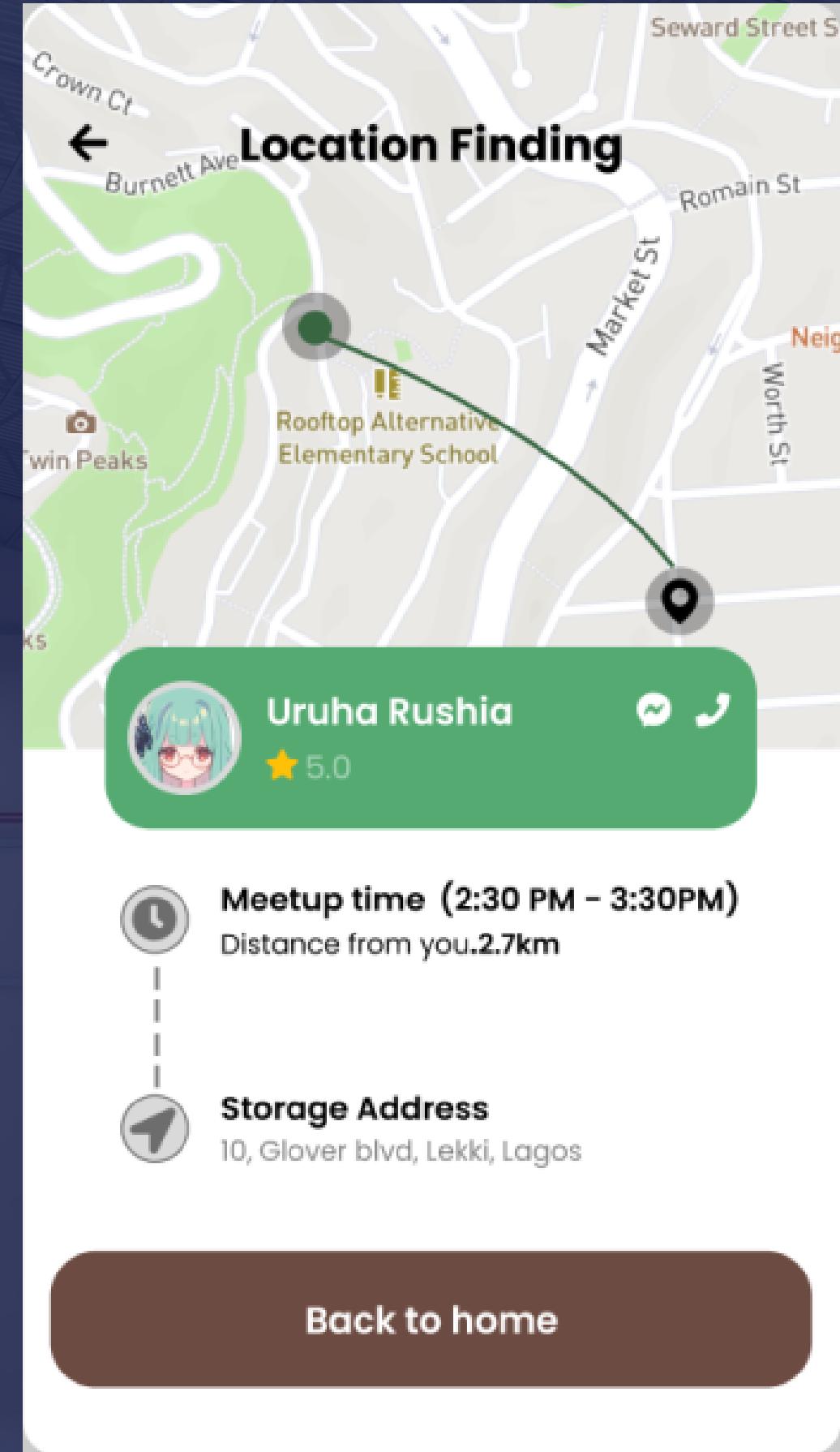
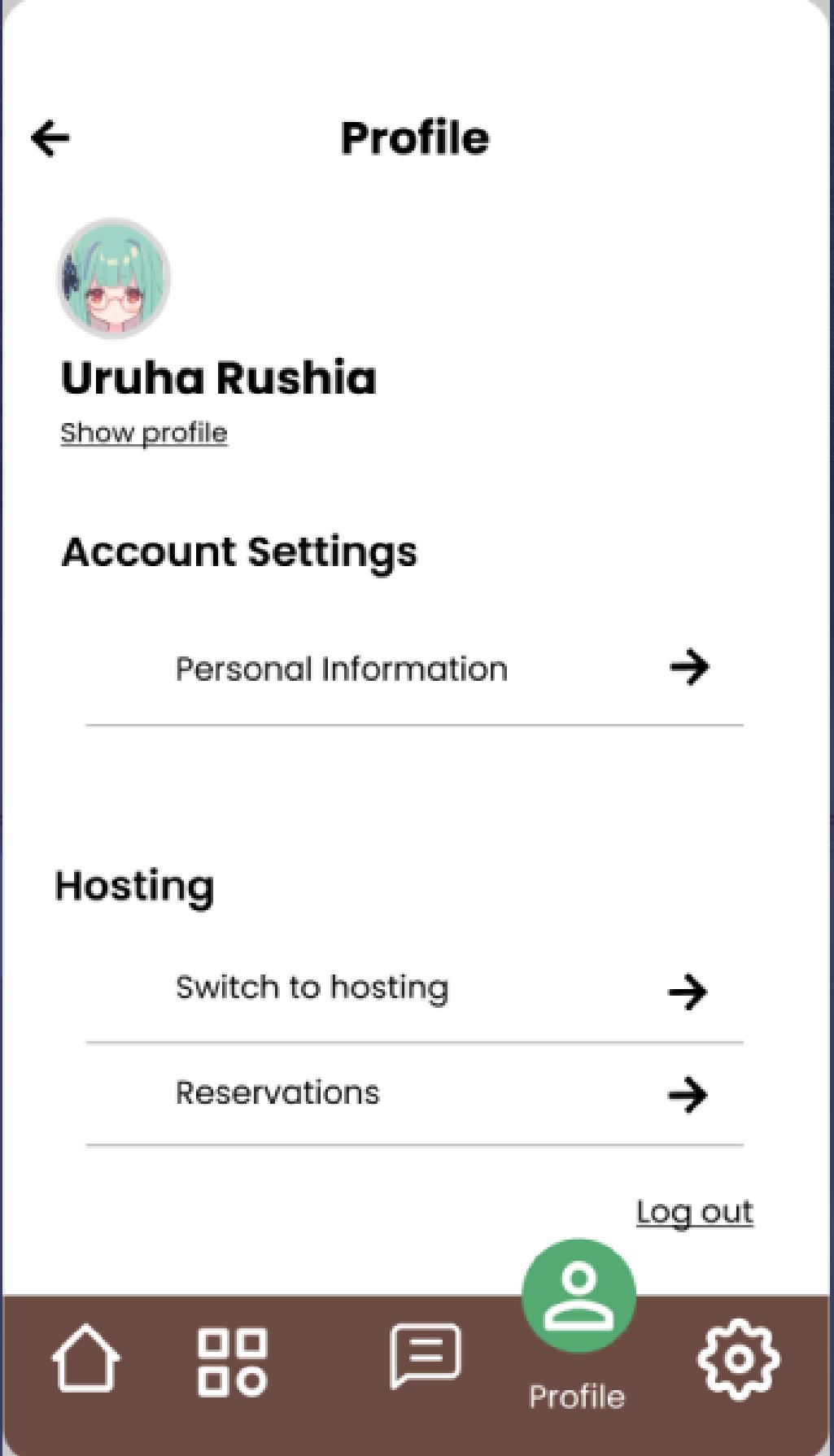


## Description

A secure and spacious warehouse fit to store any type of products.

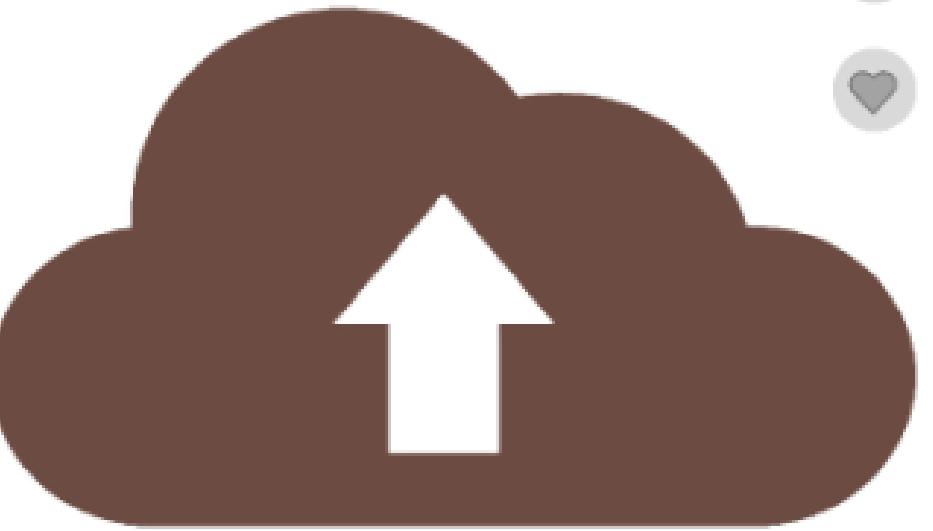
Meetup Dates: M T W Th F S

[Proceed to pay](#)





Name of Your Place



Upload This Place

₱00.00

per week

### Description

"Type Your Description Here"

**Floor Area** 103 m<sup>2</sup>

**Location** City, State/Province/Region

Proceed to listing

Access Here



C0de Wiz4rdzzZz



C0de Wiz4rdzzZz

# PHYSICAL ALLOCATION MODEL

TASK	ASSIGNED TO	Approximation of Time Needed
Installation and Verification of Necessary Software for Development.	Everyone	1 to 2 hours
Login Module	Lance	1 hour
Registration Module	Regina	1 hour
Map Module	Regina	2 days
Listing Module	Regina	1 day
Space Recording Module	Liana	2 days



TASK	ASSIGNED TO	Approximation of Time Needed
E-Commerce Module	Liana	2 days
Desktop Dashboard	Regina	2 days
View Switching (Between Renter and Host)	Liana	2 hours
Account Information Editing	Lance	2 hours
Front-end for Landing Page	Regina	1 day
Front-end for Login and Registration	Lance	1 day

TASK	ASSIGNED TO	Approximation of Time Needed
Front-end for Map Module	Regina	1 day
Front-end for Listing Module	Liana	1 day
Front-end for Space Recording Module	Lance	1 day
Front-end for E-Commerce Module	Liana	1 day
Front-end for Desktop Dashboard	Lance	1 day
Bottom to Top Assessment	Lance	2 days
System Maintenance	Regina	3 hours



C0de Wiz4rdzzZz

# GANTT CHART

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8	ID	TASKS	Month 1												Week 2			
9			Aug 15	Aug 16	Aug 17	Aug 18	Aug 19	Aug 20	Aug 21	Aug 22	Aug 23	Aug 24	Aug 25	Aug 26	Aug 27	Aug 28	Aug 29	Aug 30
10	1	Installation and Verification of Necessary Software for Development.																
11	2	Login Module																
12	3	Registration Module																
13	4	Map Module																
14	5	Listing Module																
15	6	Space Recording Module																
16	7	E-Commerce Module																
17	8	Desktop Dashboard																
18	9	View Switching (Between Renter and Host)																
19	10	Account Information Editing																
20	11	Front-end for Landing Page																
21	12	Front-end for Login and Registration																
22	13	Front-end for Map Module																
23	14	Front-end for Listing Module																
24	15	Front-end for Space Recording Module																
25	16	Front-end for E-Commerce Module																
26	17	Front-end for Desktop Dashboard																
27	18	Bottom to Top Assessment																
28	19	System Maintenance																
29																		

[Access Here](#)



C0de Wiz4rdzzZz



# WARESPACE:

A WEB, MOBILE AND DESKTOP APPLICATION FOR FREE SPACE FINDING AND LISTING, WITH  
BUILT IN LOCATION PINNING AND MESSAGING

THANKS FOR LISTENING!