Prepared By:

Mohammad Enan Al Harun Sahan,

Reg No. 20101095
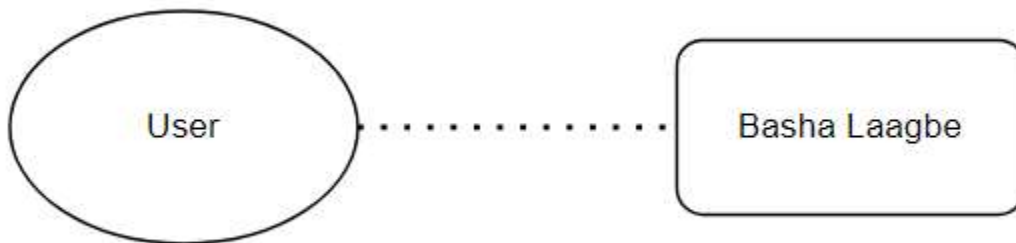
Section: B2

Presented to:

Ali Zafar Sadiq

Lecturer, CSE, UAP

Basha Laagbe

Use Case Diagram:

Basha Laagbe is an online house rental service. Through this system users will be able to rent houses, flats and also be able to sell their property.

User:

Action 1: Clicks website.

Reply 1: Website UI opens.

Action 2: Users signs up.

Reply 2: Required information are collected and log in credentials provided.

Action 3: Enters log in credentials.

Reply 3: Users given access to account specific features.

Action 4: Select account type.

Reply 4: Users are provided option to access as a normal user or opt in to premium plans.

Action 5: Users can select their required rent type.

Reply 5: Advertisements are sorted according to their preference.

Action 6: User clicks on advertisement.

Reply 6: Advertisement details are shown.

Action 7: Users clicks contacts tab.

Reply 7: Contact info is shown according to user type.

Action 8: For inquiry click support.

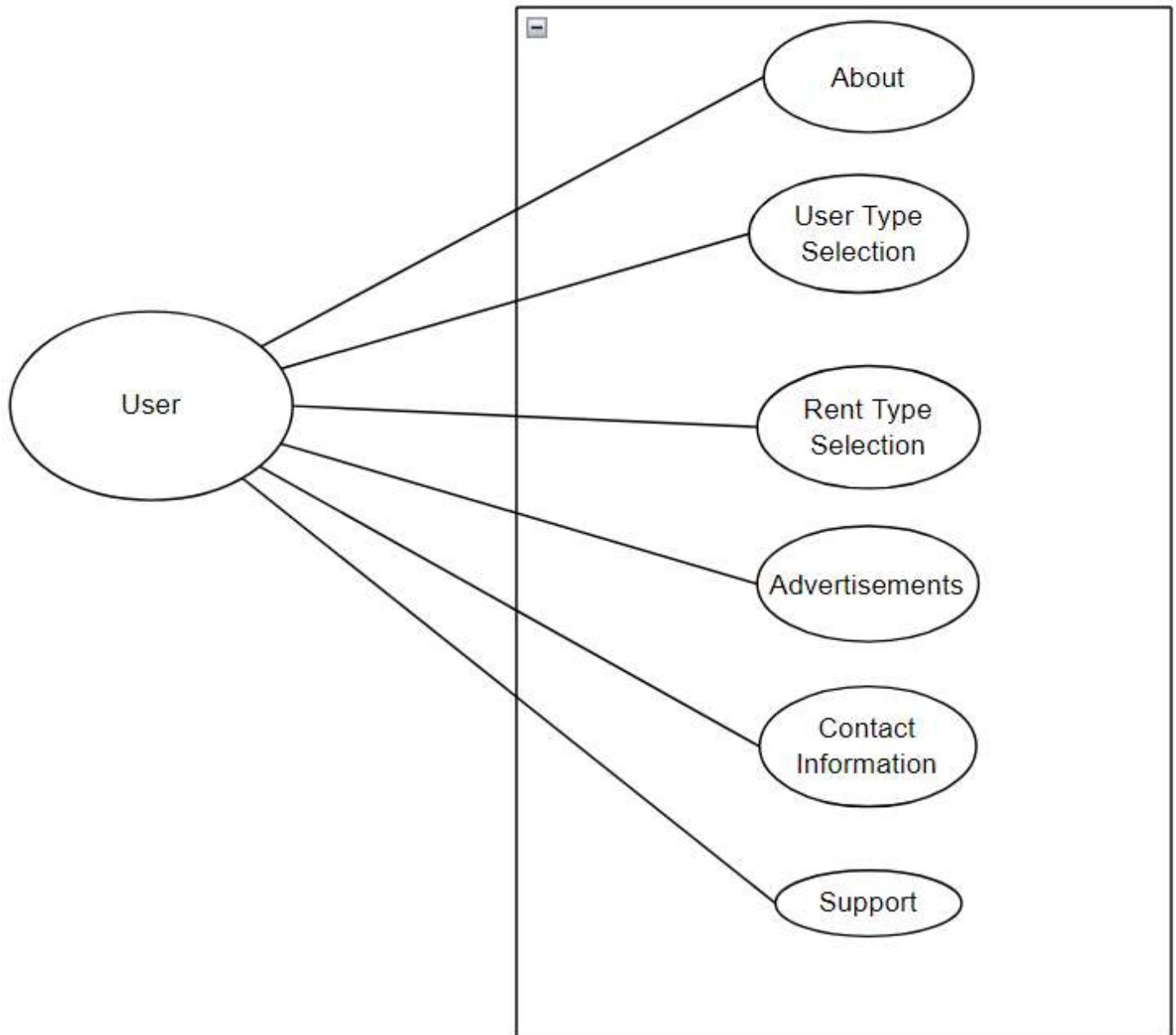**Reply 8:** Support Information is presented to the user.

Figure: Level 1.

Subsystem of Authentication:

Users need to be authenticated before performing any action. When signing up user will have to provide:

- Name
- National Id Card Number
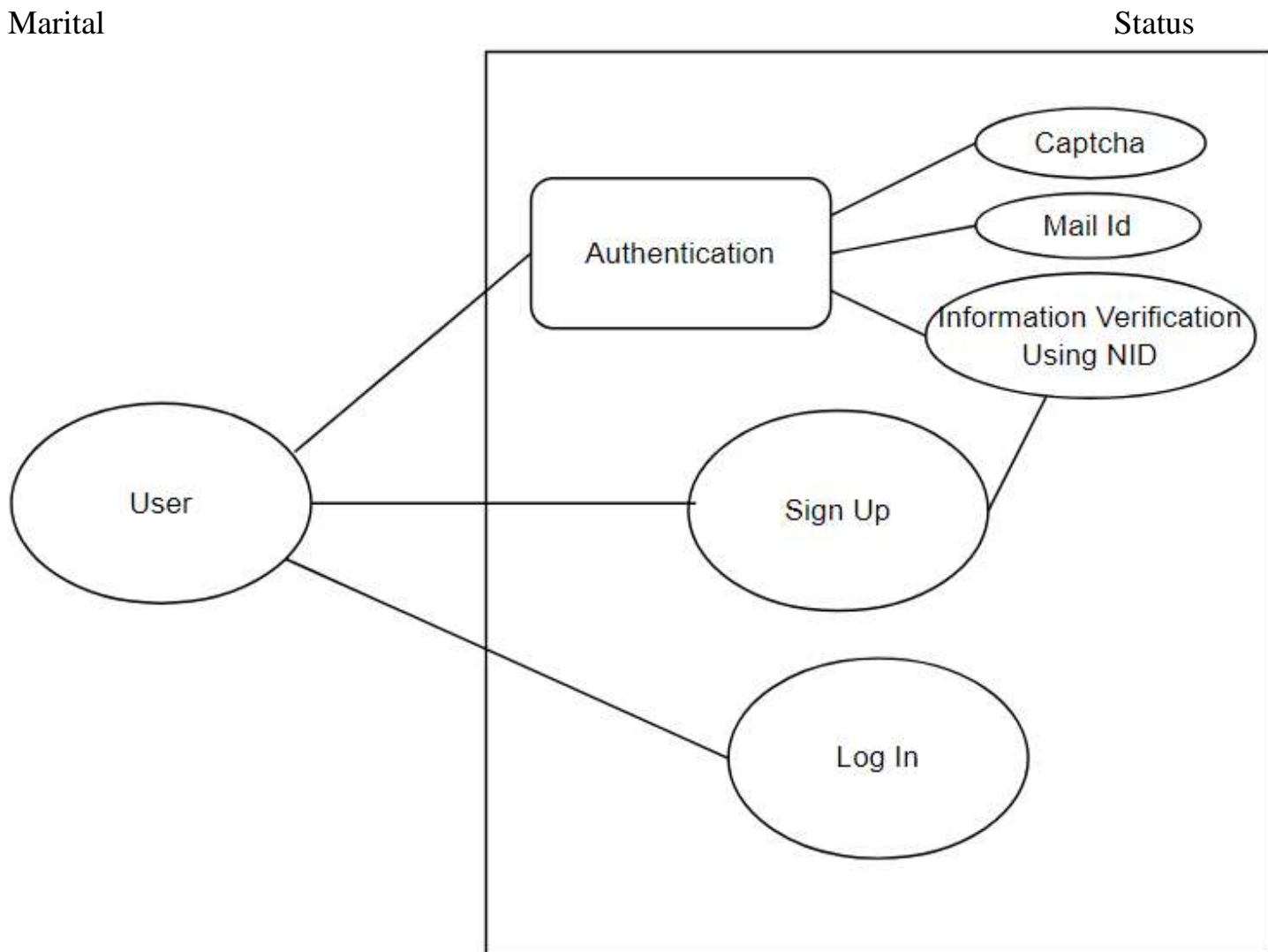- Birth Date

- Occupation
- Marital   Status

Figure: 2.1

Subsystem of Buy/Sell/Rent:

Tenants can select if they want to search for rent places or buy houses. Owners can put up their property for rent or sell.

Subsystem for Renting:

Tenants are of two types – Premium Users and Free Users. Free Users are allowed to access specific features but for a limited time where Premium User can roam without limit.
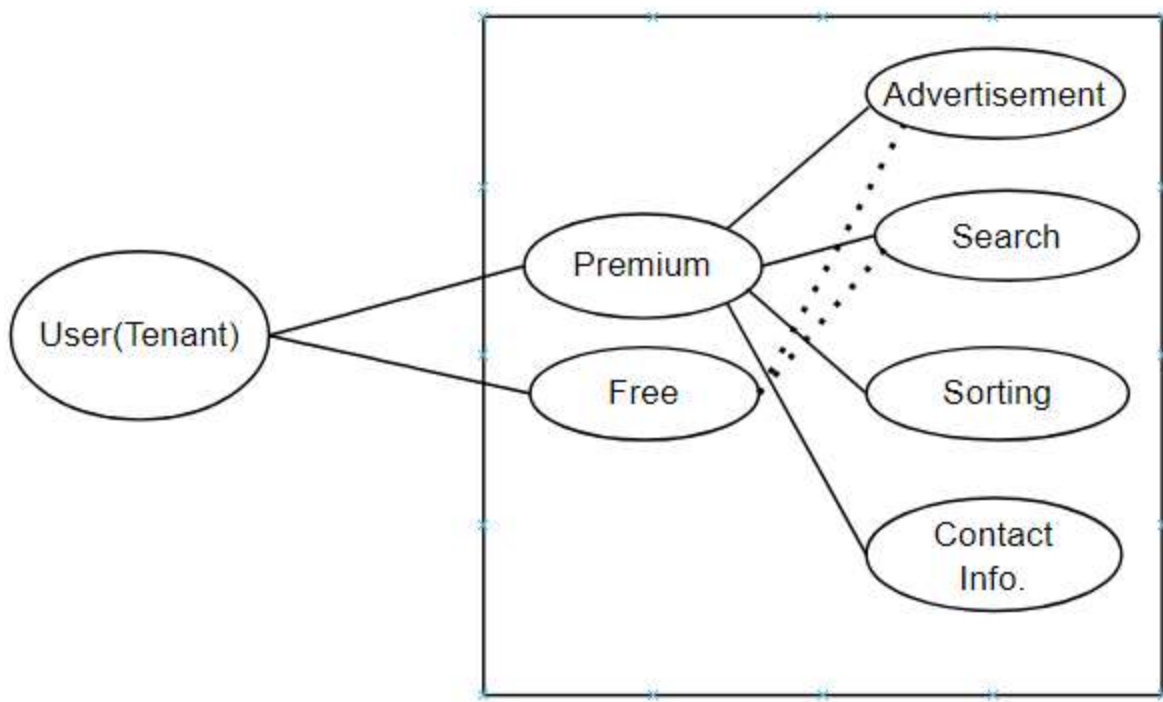
Figure: 2.2

Subsystem for Advertisement:

User can also post advertisements. Users needed to be logged in in order to advertise. Advertisement can be of three types. Verified, Premium and Free. Verified and Premium users have no limit.
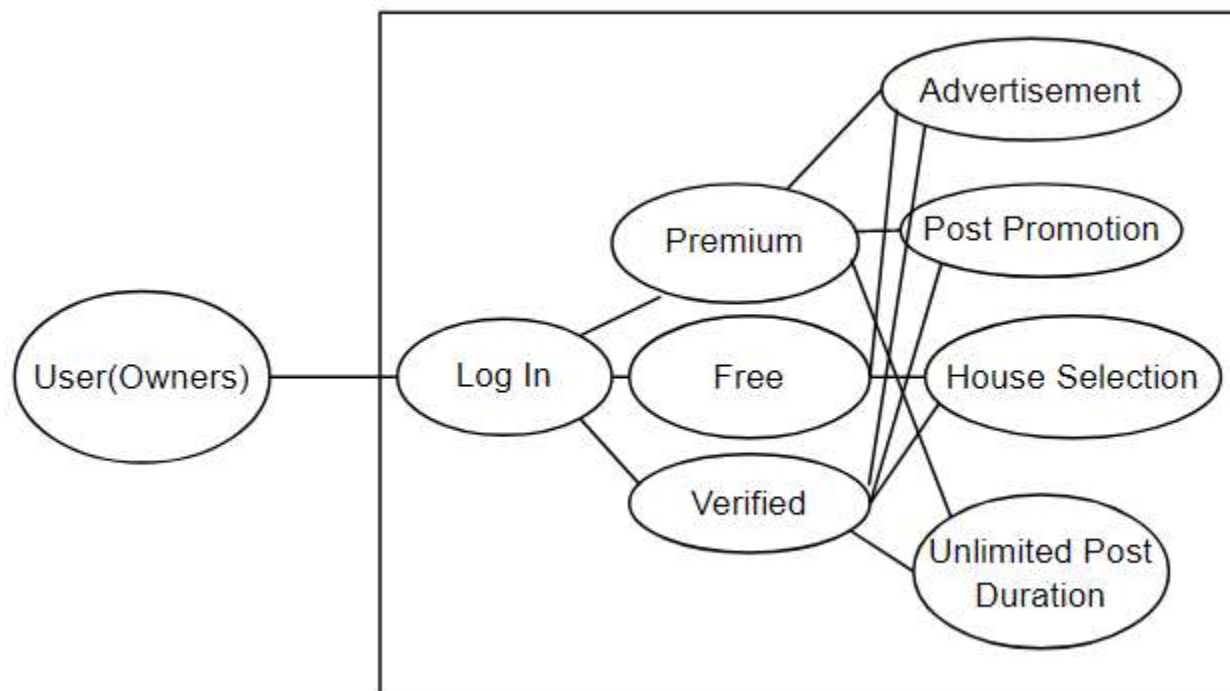

Figure: 2.3

Subsystem For Selling:

User can also sell properties. But Only Verified users can partake in this. Users will be verified through field agents. They will get a special webpage where all their advertisements will be listed. User will be able to customize their own page.
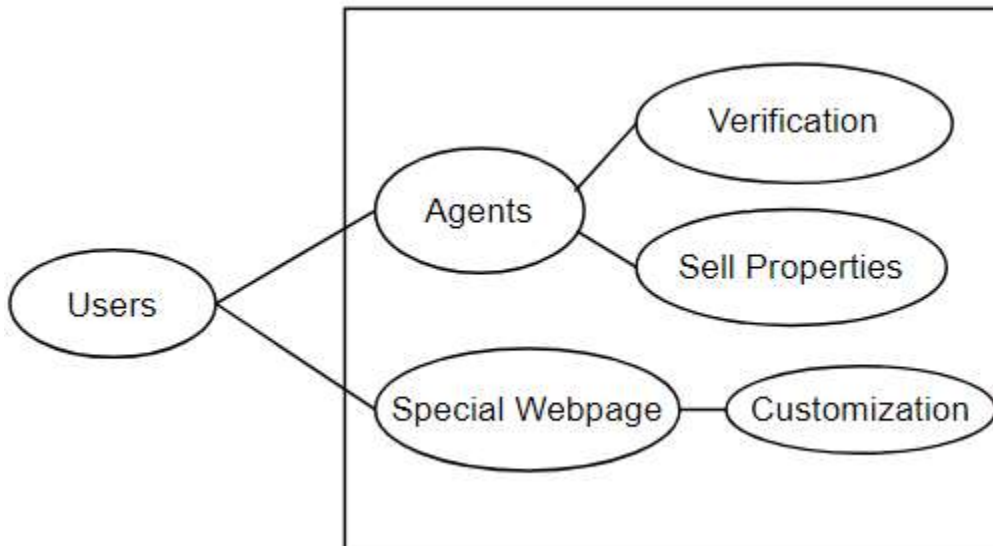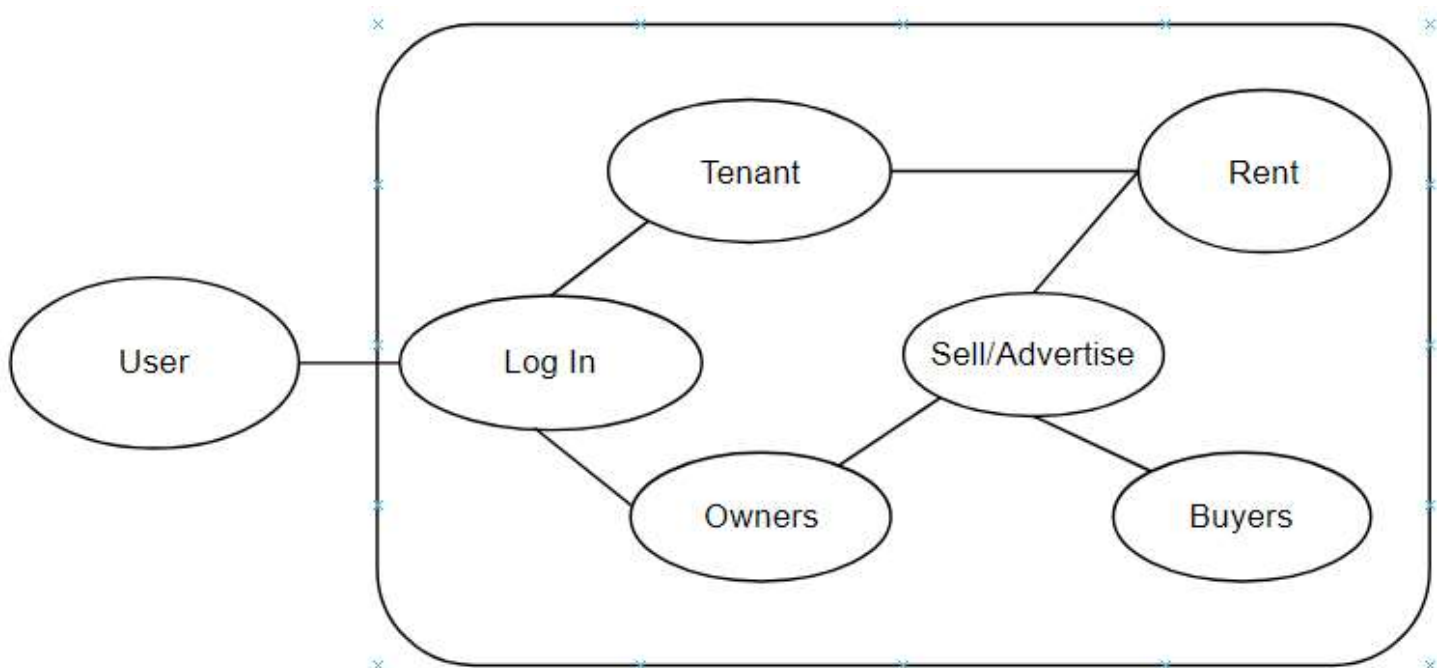

Figure:2.4

Overall System Output:

Figure:2.5

HOME RENTAL SYSTEM

Course Code: CSE 306
Course Title: System Analysis & Design Lab

Submitted to:

Ali Zafar Sadiq
Lecturer
Department of CSE
University of Asia Pacific

Submitted by:

Name: Md. Asadujjaman Noor
ID: 20101101
Section: B2
Department: CSE

Level-0 use case:

After analyzing all requirements, we found one actor who will directly use the system as a customer.

Following is the actor of HRS system –

User:

Here in our HRS system we have one actor interacting with the system:
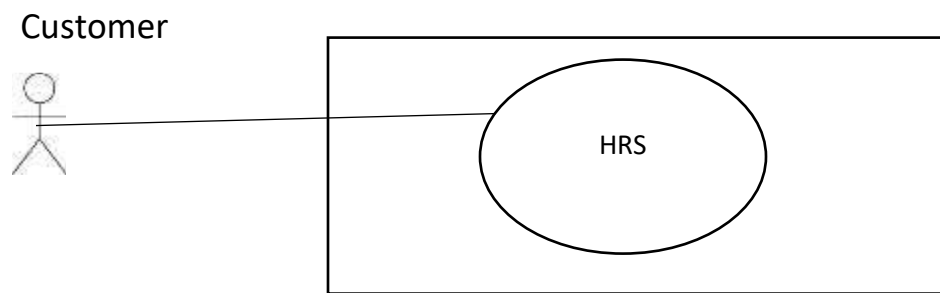
Customer

Fig: Level 0

System description from level-1 use case diagram:

The actors of HRS have to play different actions and system will reply according to these actions –

User:
Action-1: Click signup.
Reply-1: Please fill up the required information.

Action-2: Enters the information.
Reply-2: Registration successful.

Action-3: Enters username and password.
Reply-3: Login successful.

Action-4: Click on Profile.
Reply-4: Profile will be displayed.

Action-5: Click on post.
Reply-5: post box will be displayed.

Action-6: Click on Search.
Reply-6: Search box will be displayed.

Action-7: Click on Contact Us.
Reply-7: Helpline options will be displayed.

Action-8: Click on Log out
Reply-8: Log out will successful.

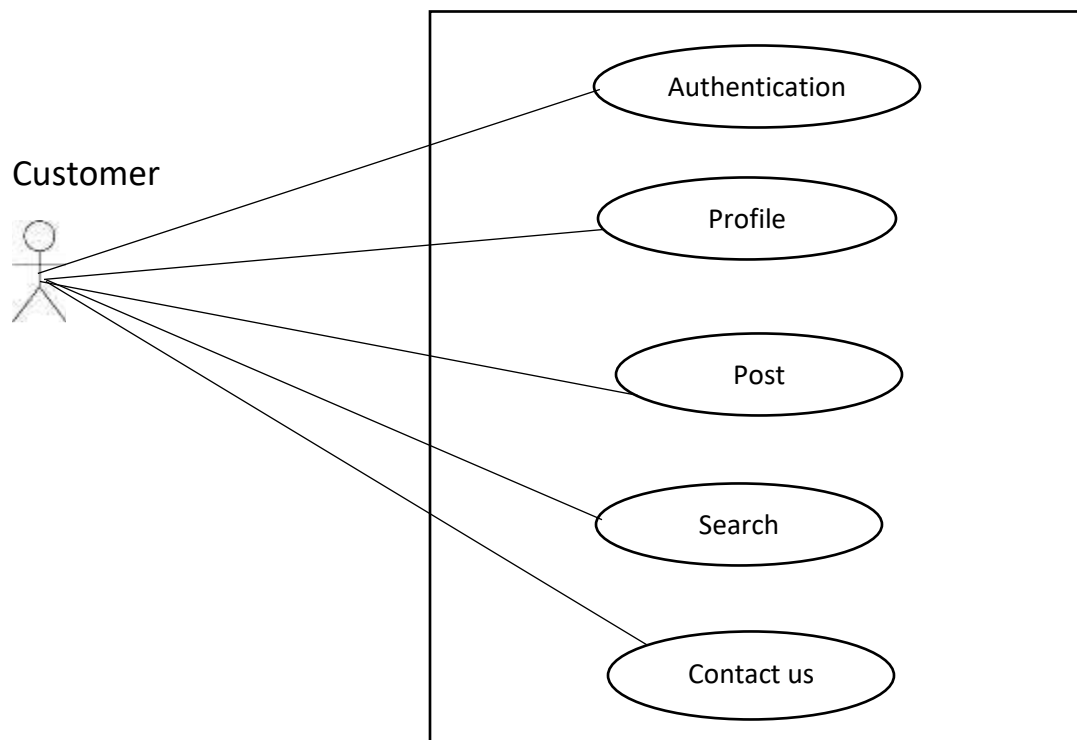**Level-1 use case diagram for Interfacing:**

Fig: Level-1

Subsystems of Authentication:

If any actor wants to perform any task in the system, then he needs to go through the authentication process at first. Firstly, the actor needs to have an account if they want to interact with the system. If they have not any account, then they need to sign up.
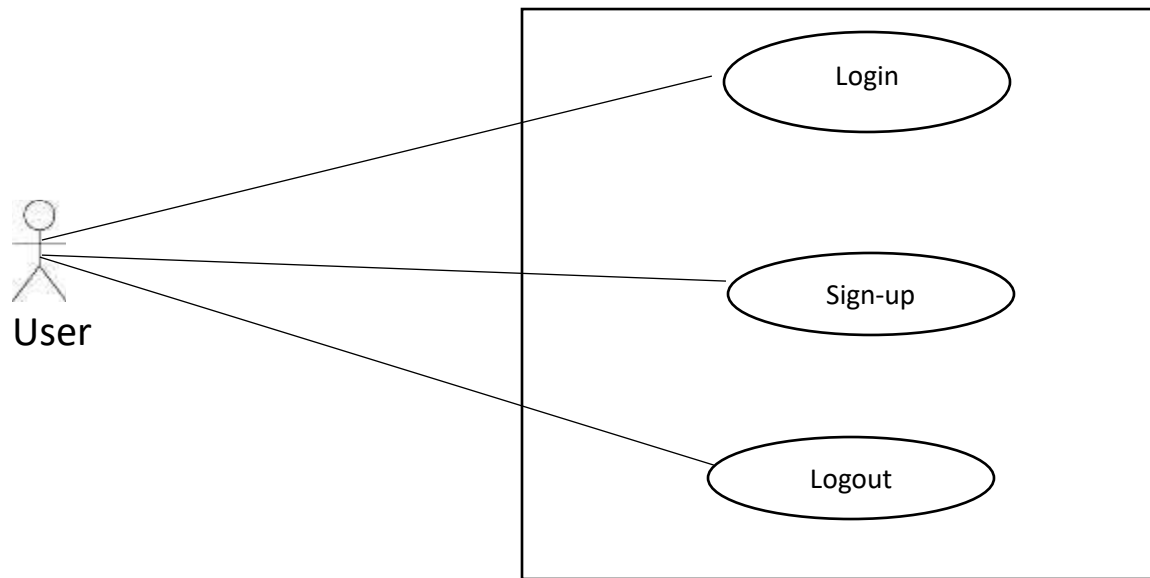

Fig: Level 2.1

Subsystem of profile

In this subsystem profile will create their profile according given by this information: name, photo, phone, password, address. By KYC verification Customer actor can update their profile for better performance.
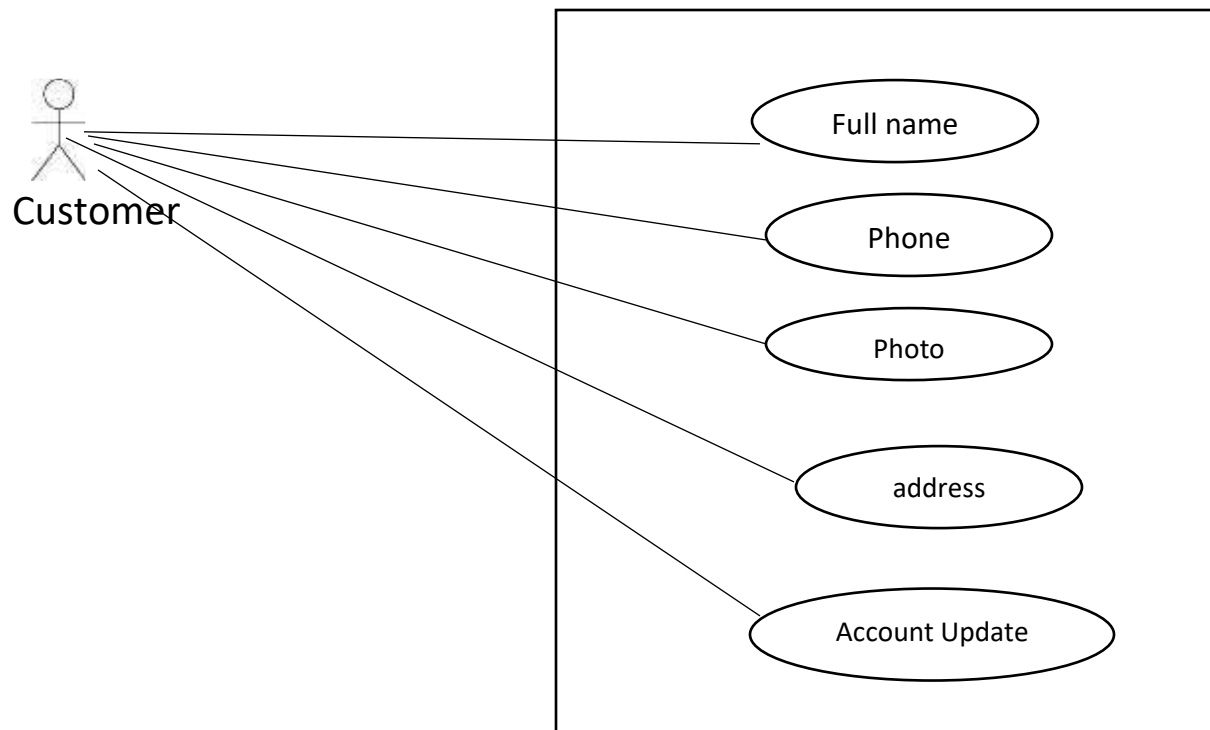

Fig: Level 2.2

Subsystems of Customer:
In this subsystem Customers can see available house, or post for ranting houses.
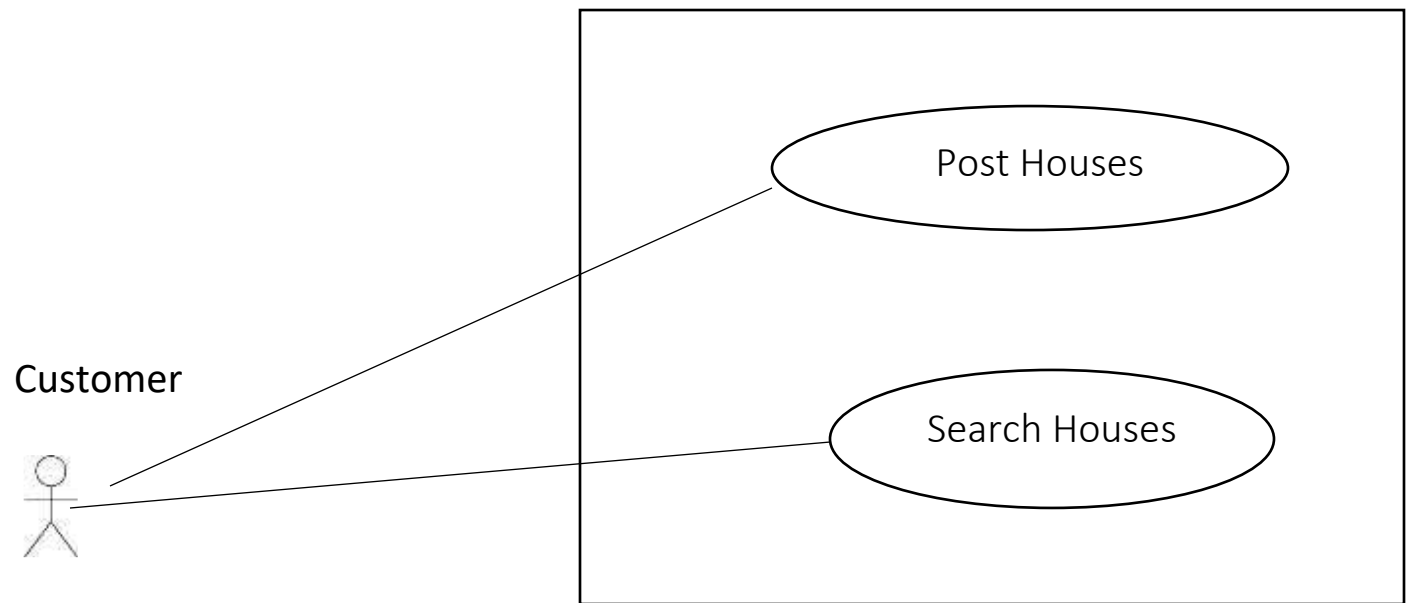
Customer

Post Houses

Search Houses

Fig: Level 2.3

Subsystem of Post Houses

In this subsystem Company have to Add short description, contact number, Full address of the House and at list 5 photo of the house.
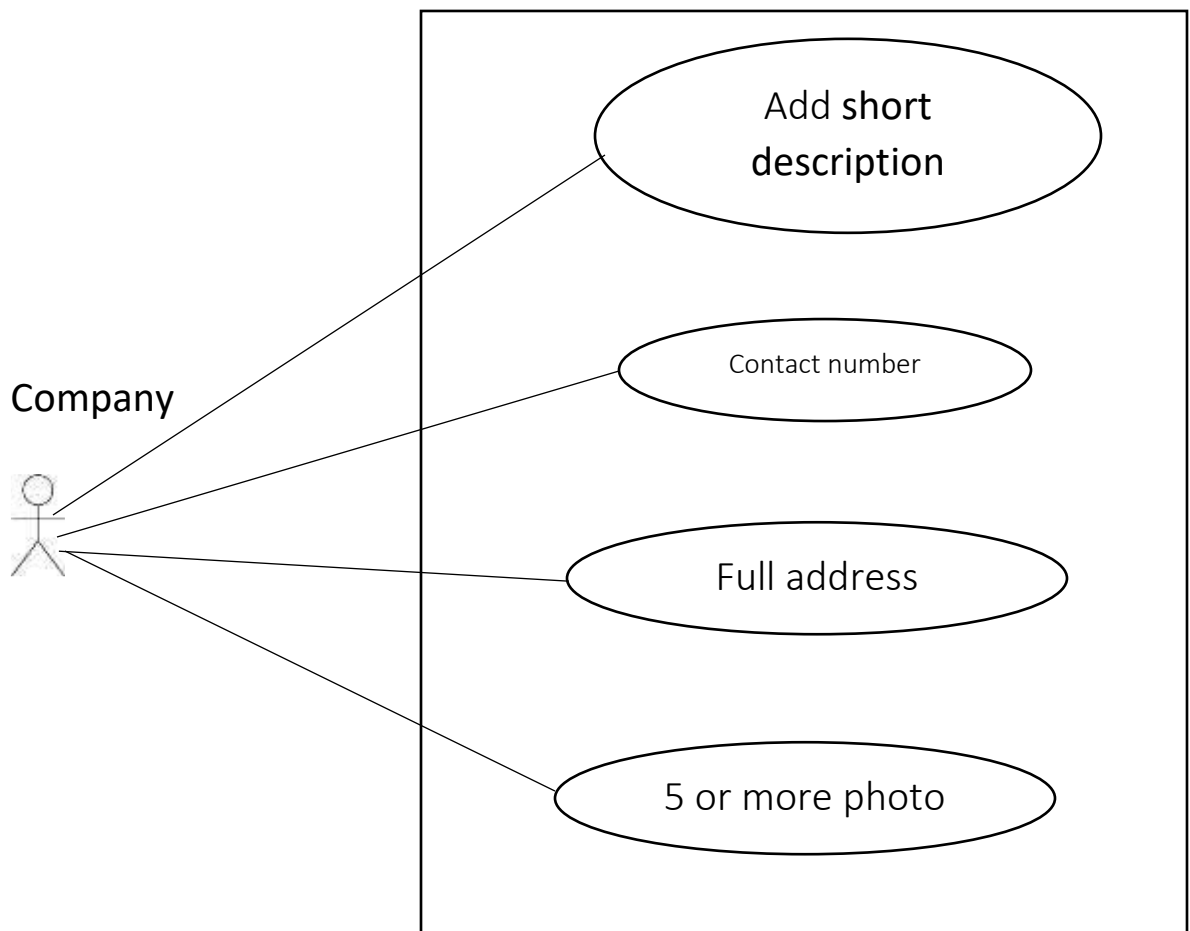

Fig: Level 2.4

Subsystem of Contact us

If anyone need any information or help contact with from these options
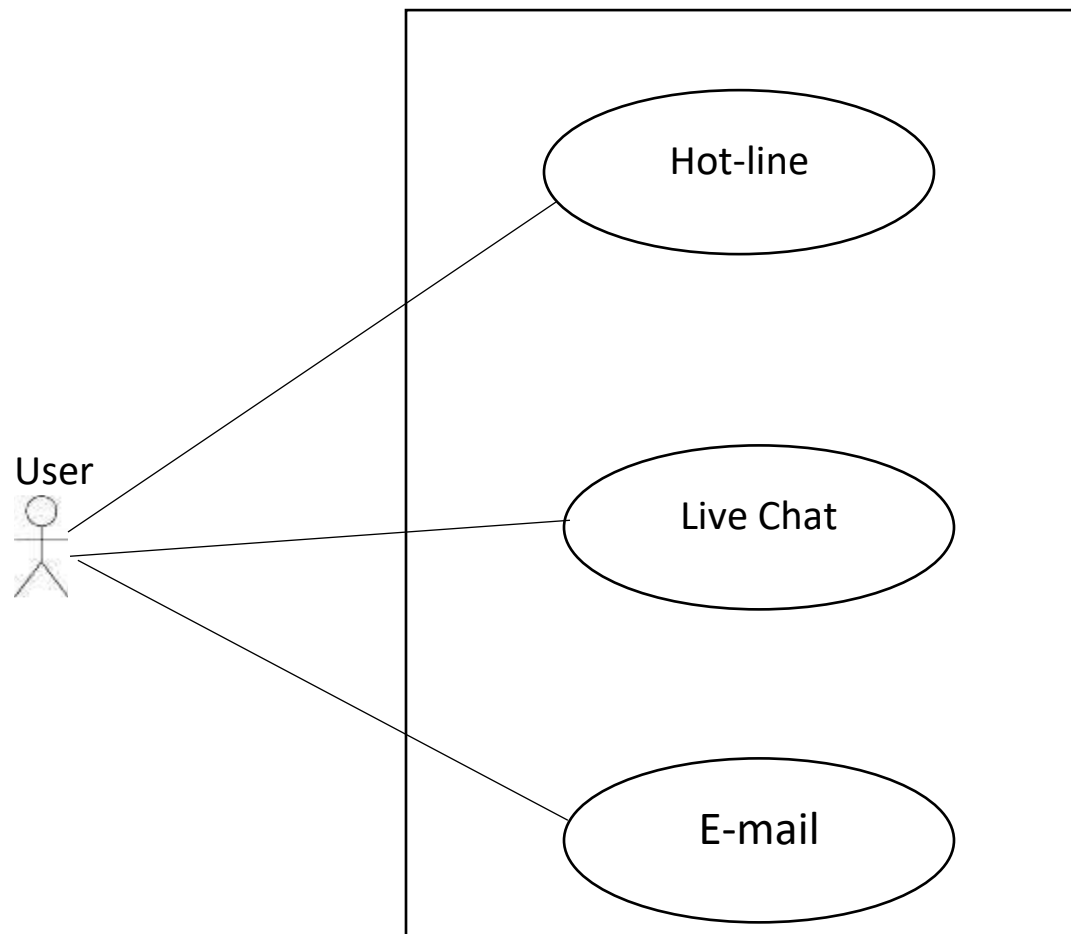1.Hot-line 2. Live chat 3. E-mail

Fig: Level 2.5

UNIVERSITY OF ASIA PACIFIC

Department of Computer Science & Engineering

HOUSE RENTAL SYSTEM

Course Title   :   System Analysis & Design Lab

Course Code   :   CSE 306

Submitted by: **Submitted to:**

Name   :   Sheikh Nafez Sadnan   Ali Zafar Sadiq

Reg. No.:   20101106   Lecturer

Roll No.   :   106   Department of CSE

Section   :   B (2)   University of Asia Pacific

HOUSE RENTAL SYSTEM (*BASHA LAGBE*)

This is our HRS (House Rental System) project. Here we have a "user" who will directly interact themselves with the system. It gives a non-technical scenario of our whole system.

User:

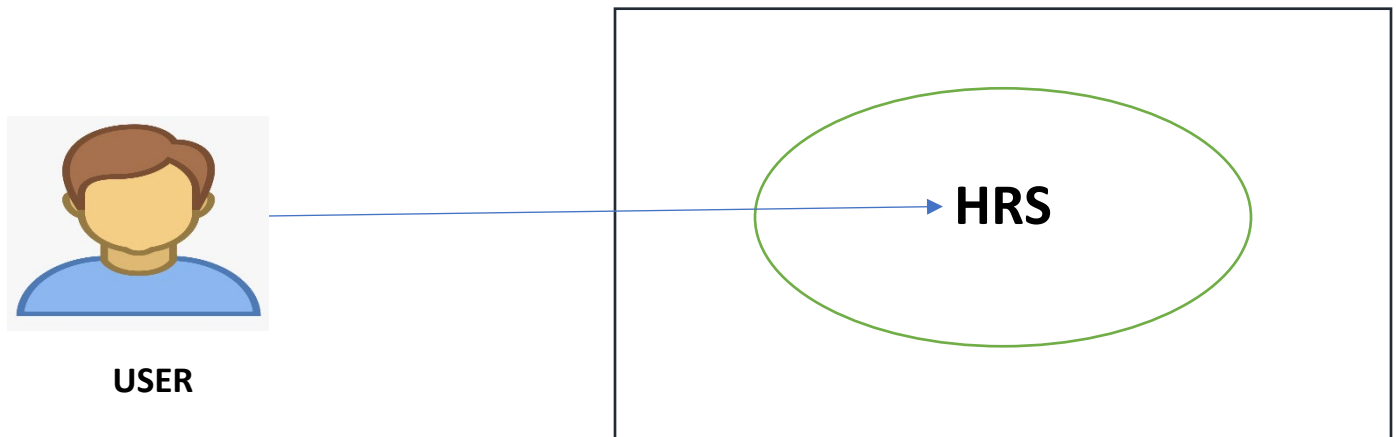Here in our HRS where, we have one actor denoted as "user" who is interacting with the system:

USER   **HRS**

Figure: Level 0

The actors of HRS have to play different actions and system will reply according to these actions –

User:
Action-1: Click Sign Up.
Reply-1: Please fill up the required information.

Action-2: Enter your information.
Reply-2: Registration successful.

Action-3: Enter username/e-mail and password.

Reply-3: Log In successful.

Action-4: Click on Home.

Reply-4: Home page will be displayed.

Action-5: Click on Profile.

Reply-5: Profile will be displayed.

Action-6: Click on Search.

Reply-6: Search box will be displayed.

Action-7: Click on FAQ.

Reply-7: FAQ options will be displayed.

Action-8: Click on About Us.

Reply-8: Website information and contact info will be displayed.

Action-9: Click on Help.

Reply-9: Help features will be displayed.
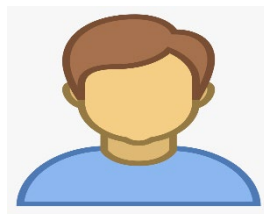
Action-10: Click on Log Out.

Reply-10: Log Out is successful.

Level-1 interface's use-case diagram:

In this level, we will show available options for interface such as-

1. **Home**
2. **Profile**
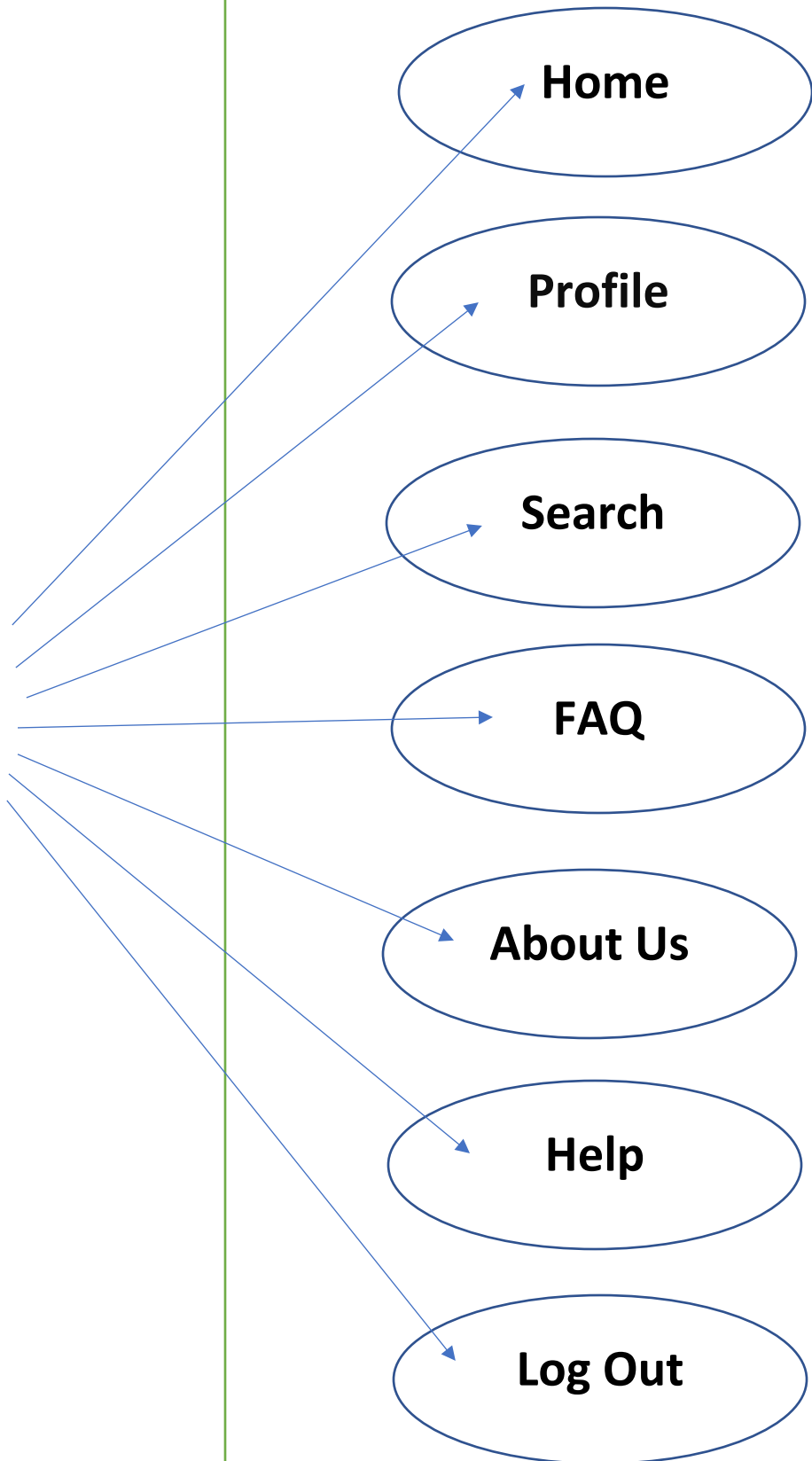3. **Search**
4. **FAQ**
5. **About Us**
6. **Help**

7. Log Out

Level 2.1 Subsystems of Authentication:

If any actor wants to perform any task in the system, then he/she needs to go through the authentication process at first. Firstly, the actor needs to have an account if they want to interact with the system. If they have no account, then they need to sign up first.
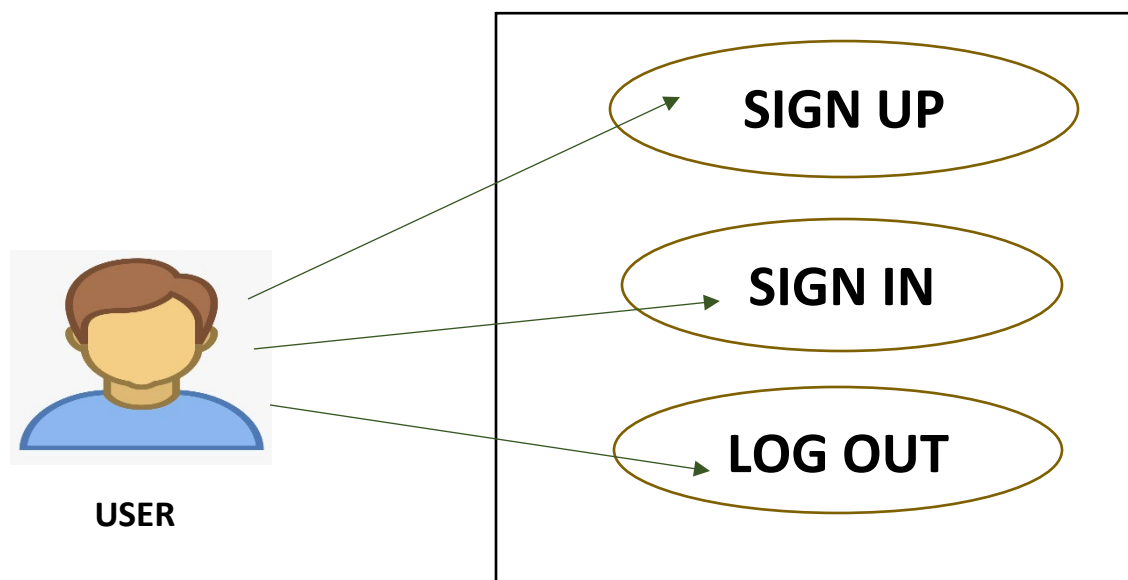

USER

SIGN UP

SIGN IN

LOG OUT

Figure: Level 2.1

Level 2.2 Subsystems of Renter:

In this subsystem, user have to apply some criteria to find out his/her desired house. This includes

1. Search Location (Ex.- Agargaon, Jatrabari, Shyamoli, Uttara etc)
2. Modify Type (Bachelor/Sub-Let/With Family)
3. Apply Filters (Price: low to high, Facilities etc.)
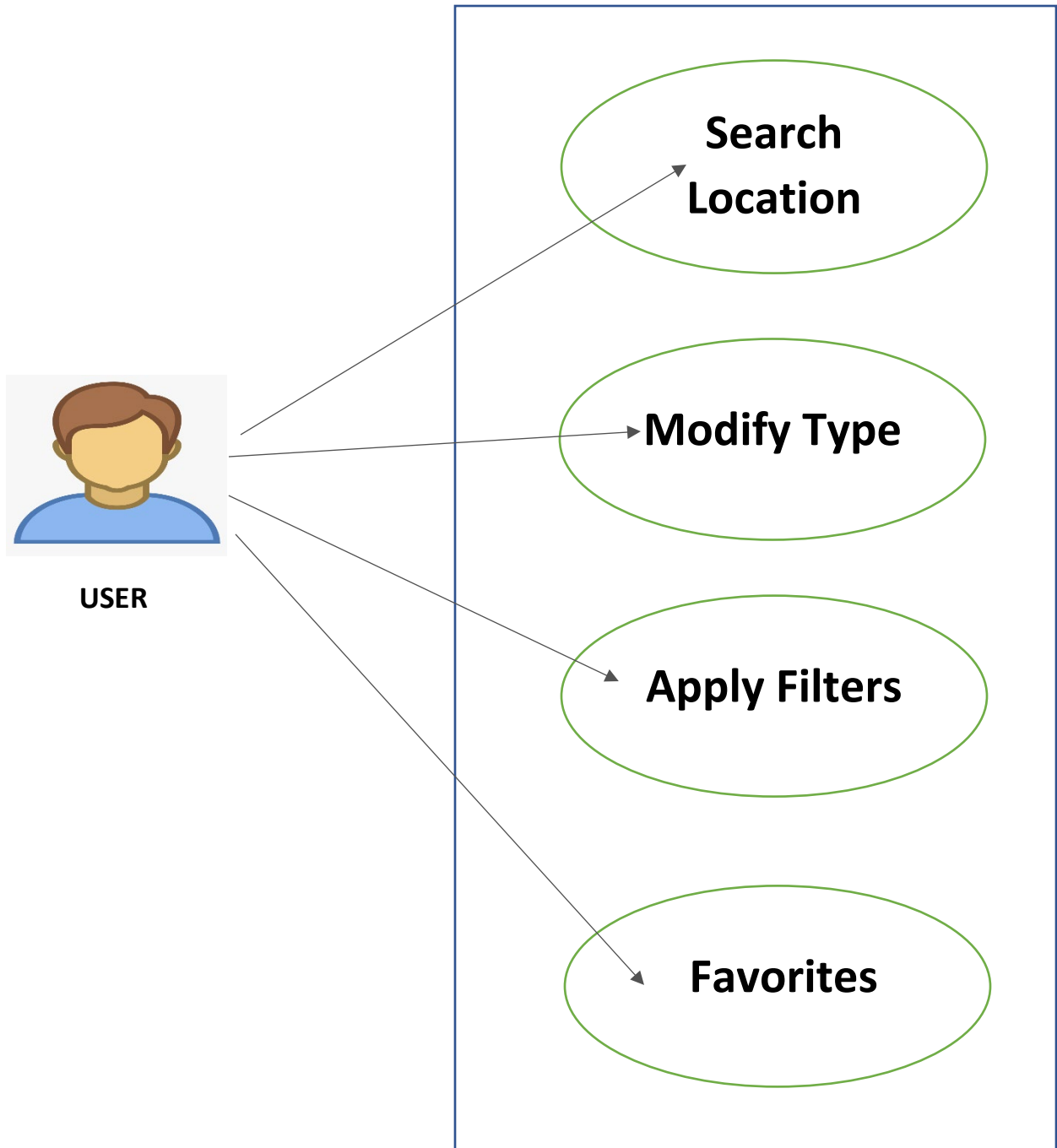4. Add to favorites (Short list of favorable picks)

USER

Search Location

Modify Type

Apply Filters

Favorites

Figure: Level 2.2

Level 2.3 Subsystems of House Owner:
In this subsystem, user have to fulfill the instructed criteria to post for an advertisement. This section includes-

1. Choose Plan (Free/Premium)
2. Post Details (Address, How many rooms etc)
3. Visual Details (Photos, Videos, Google Map Links)
4. Authorization via OTP-Confirmation
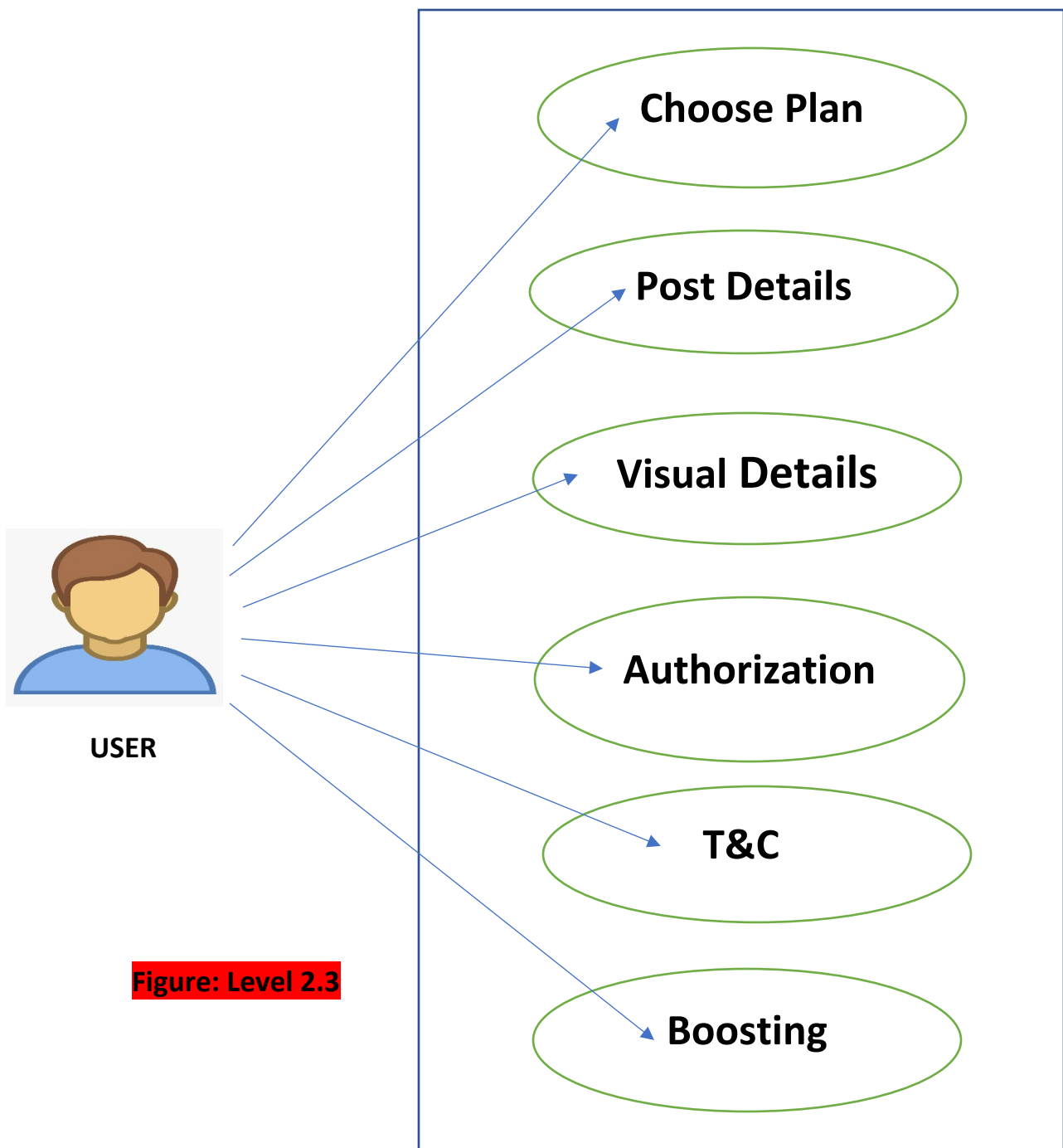5. Accept Terms and Conditions
6. Advertisement Boost

Figure: Level 2.3

Level 2.4 Subsystems of contact information of *Basha Lagbe*:
Several contact option to reach the website includes-
1. Physical Address of Office
2. Dedicated 24/7 Hotline
3. Telephone and Mobile Number
4. E-Mail Address
5. What's App Number
6. Social Media Platform (Facebook Page, Facebook Group, YouTube Channel, Instragram Profile etc)
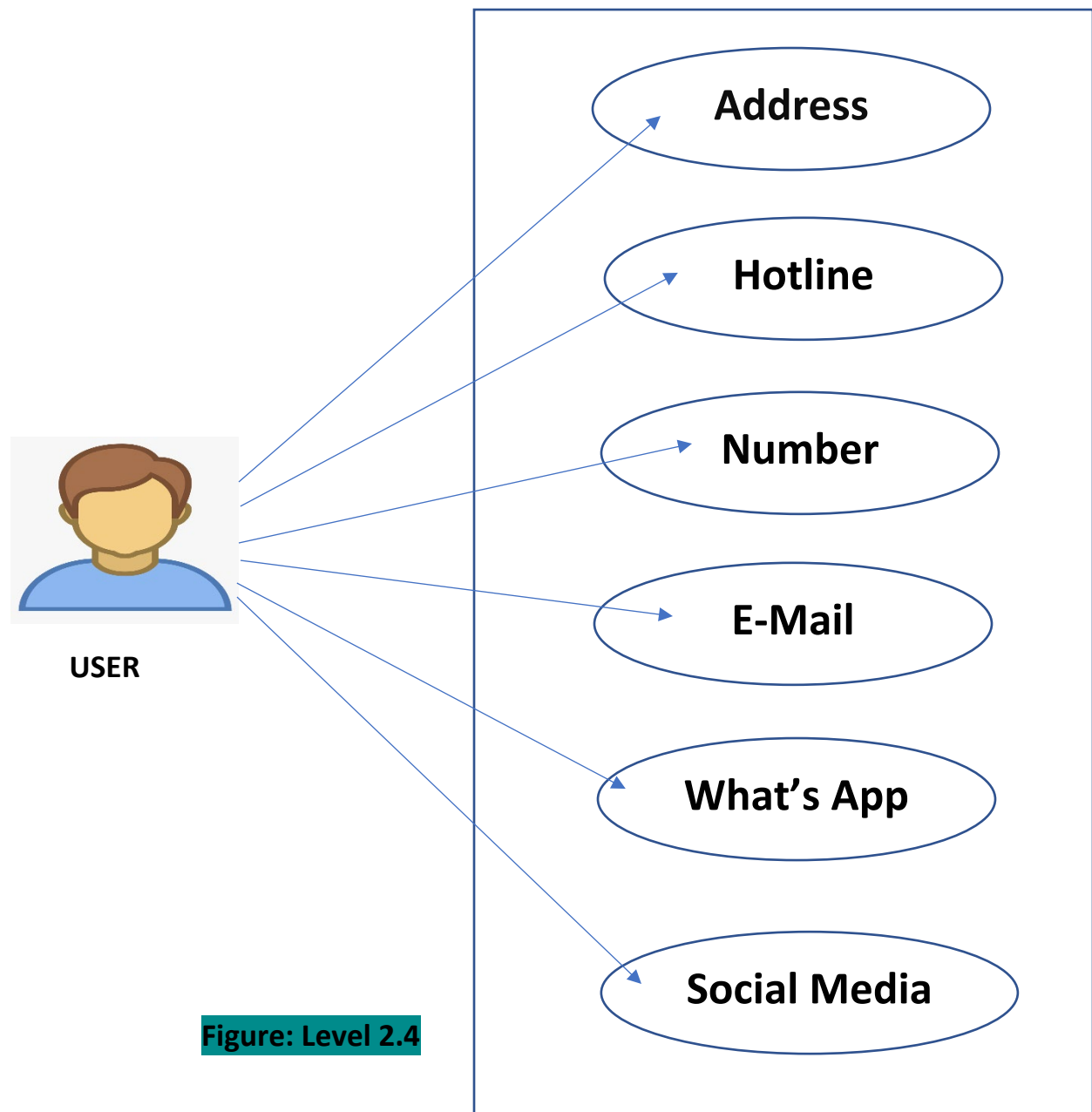

Figure: Level 2.4

Level 2.5 Subsystems of system output:

This section includes the main purpose of the website-

1. Post advertisements (rent posts)
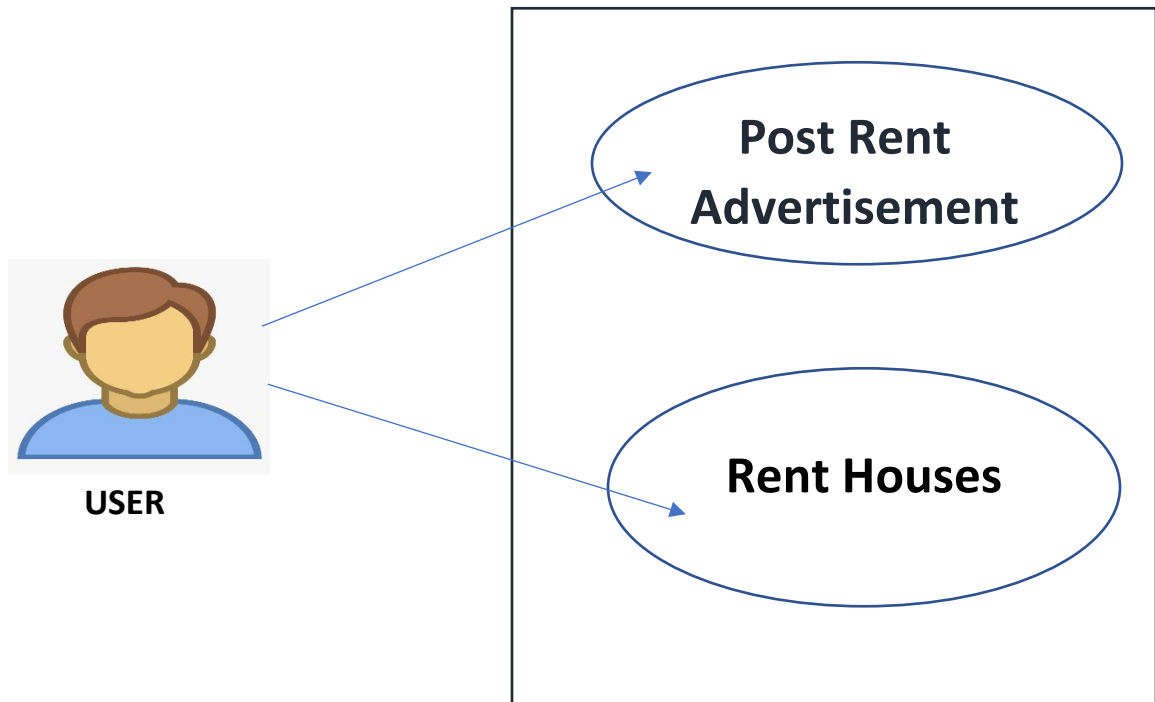2. Find suitable home for users

Prepared By:

Name: Mohammad Enan Al Harun Sahan,

Reg No. 20101095

Section: B2

Name: Md. Asadujjaman Noor

Reg No. 20101101

Section: B2

Name: Sheikh Nafez Sadnan

Reg. No. 20101106

Section: B2

Presented to:

Ali Zafar Sadiq

Lecturer, CSE, UAP

Online House Rental System

This is our HRS (House Rental System) project. Here we have a "user" who will directly interact themselves with the system. It gives a non-technical scenario of our whole system.

User:

Here in our HRS where, we have one actor denoted as "user" who is interacting with the system:

The actors of HRS have to play different actions and system will reply according to these actions –

User:
Action-1: Click Sign Up.
Reply-1: Please fill up the required information.

Action-2: Enter your information.
Reply-2: Registration successful.

Action-3: Enter username/e-mail and password.
Reply-3: Log In successful.

Action-4: Click on Home.
Reply-4: Home page will be displayed.

Action-5: Click on Profile.

Reply-5: Profile will be displayed.

Action-6: Click on Search.
Reply-6: Search box will be displayed.

Action-7: Click on FAQ.
Reply-7: FAQ options will be displayed.

Action-8: Click on About Us.
Reply-8: Website information and contact info will be displayed.

Action-9: Click on Help.
Reply-9: Help features will be displayed.

Action-10: Click on Log Out.
Reply-10: Log Out is successful.

Level-1 | Interface's use-case diagram:

In this level, we will show available options for interface such as-

1.   **Home**

2.   **Profile**

3.   **Search**

4.   **FAQ**
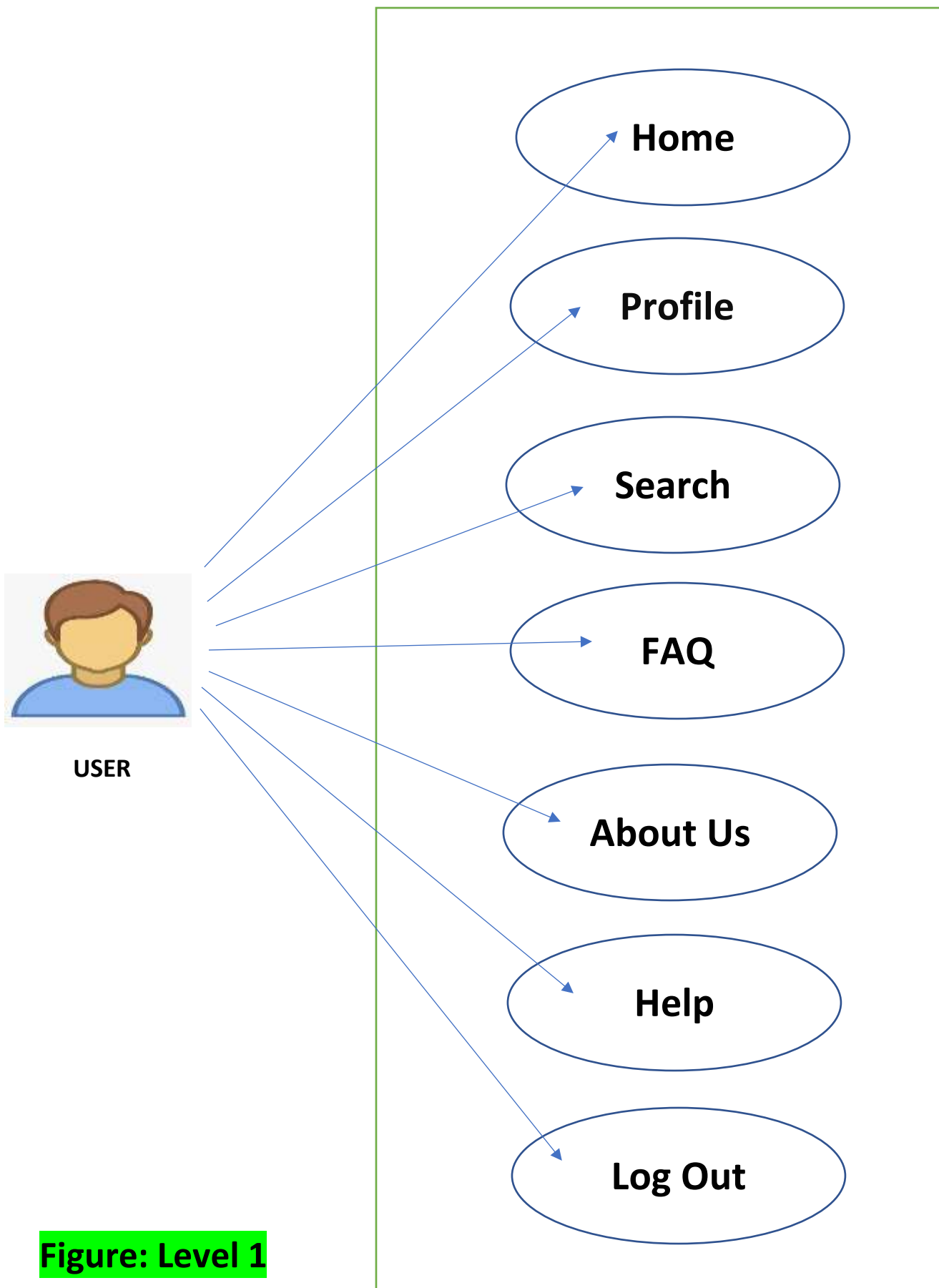
5.   **About Us**

6.   **Help**

7.   **Log Out**

USER

Home

Profile

Search

FAQ

About Us

Help

Log Out

Figure: Level 1

Subsystem of Authentication:

Users need to be authenticated before performing any action. Firstly, the actor needs to have an account if they want to interact with the system. If they have no account, then they need to sign up first. When signing up user will have to provide:

- Name
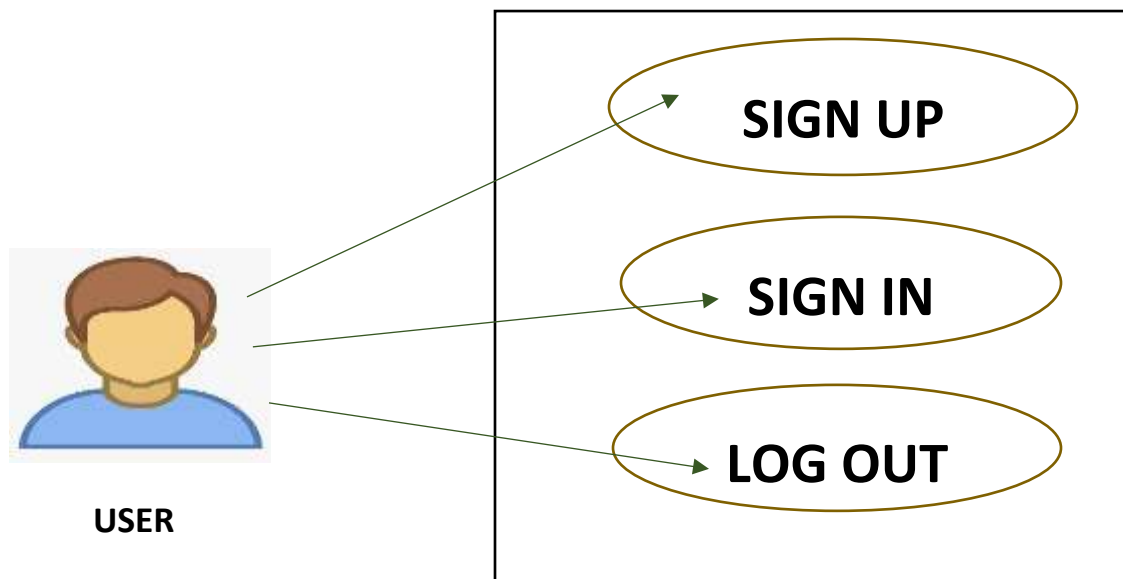- National Id Card Number
- Birth Date

- Occupation

USER

SIGN UP

SIGN IN

LOG OUT

Figure: Level 2.1

Subsystem of profile

In this subsystem profile will be created via the information given:

Name, photo, phone, password, address.

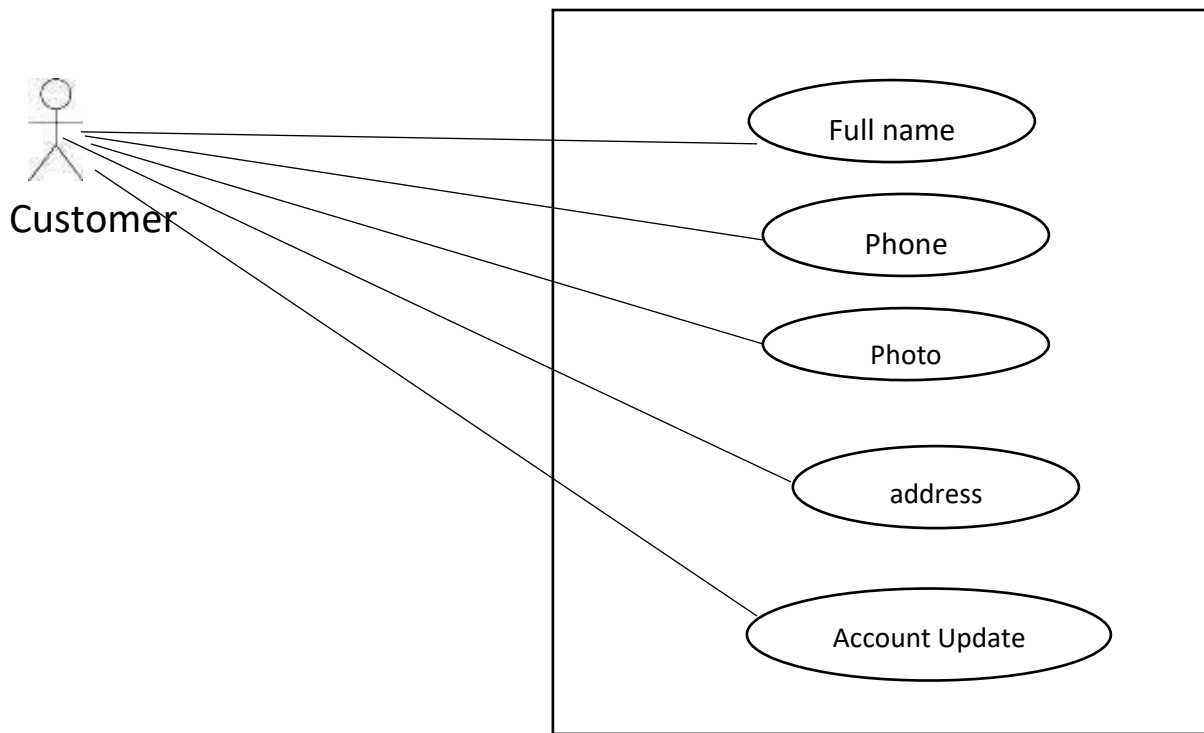By KYC verification Customer actor can update their profile for better performance.

Figure: 2.2

Subsystems of Renter:

Tenants are of two types –

- Premium Users and
- Free Users.

Free Users are allowed to access specific features but for a limited time where Premium User can roam without limit. In this subsystem, user have to apply some criteria to find out his/her desired house. This includes

1. Search Location (Ex.- Agargaon, Jatrabari, Shyamoli, Uttara etc)

2. Modify Type (Bachelor/Sub-Let/With Family)

3. Apply Filters (Price: low to high, Facilities etc.)

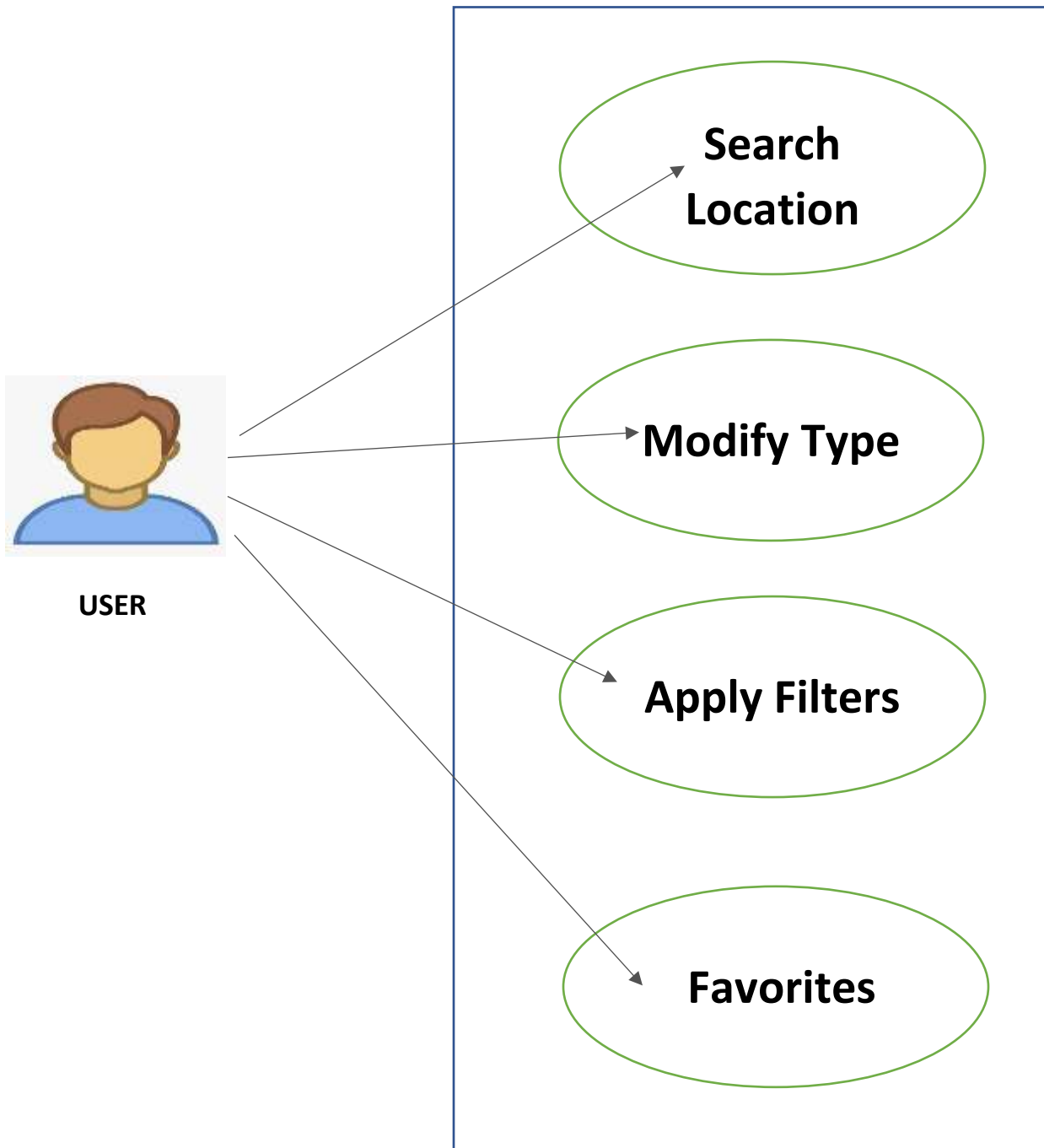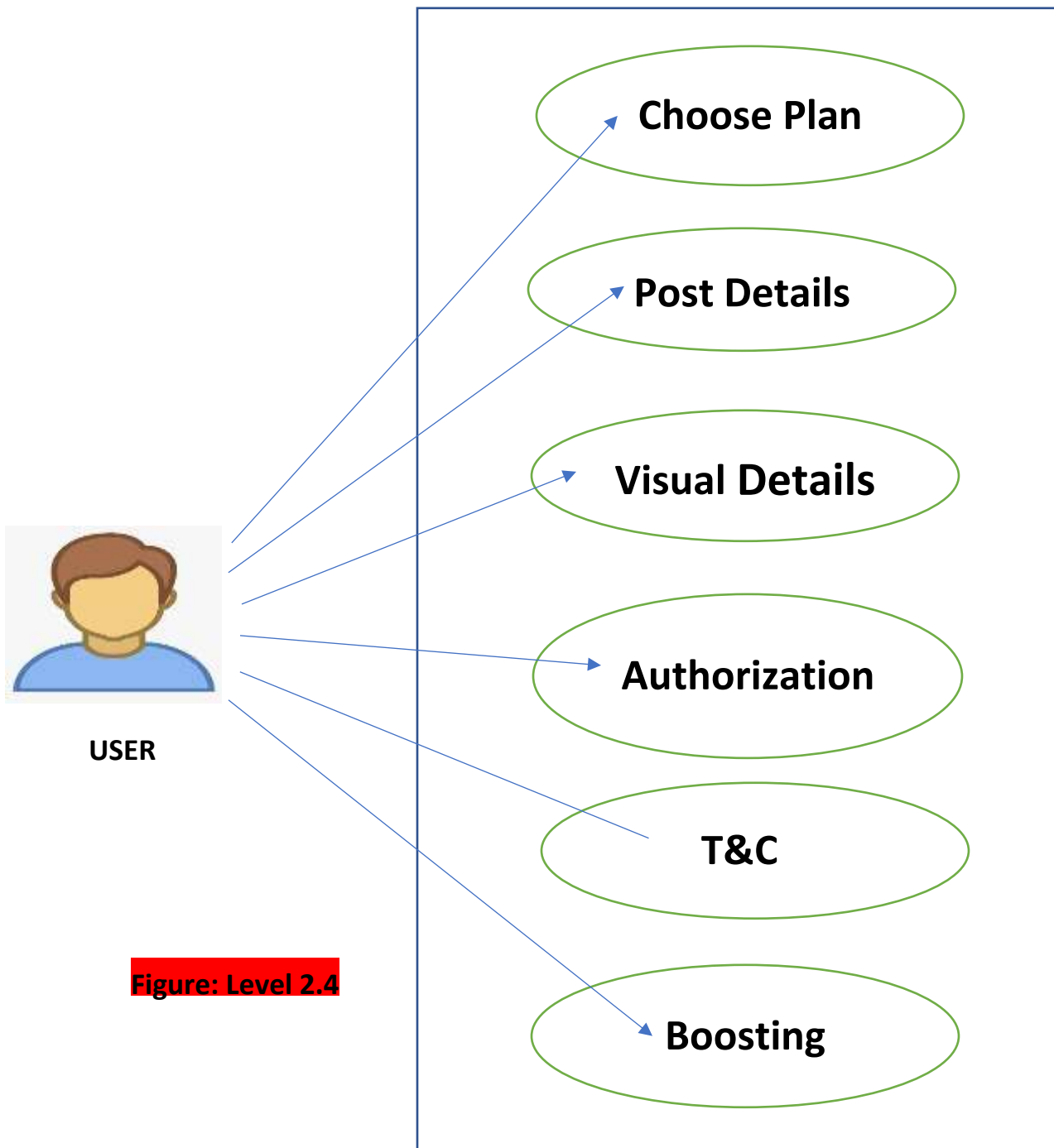4. Add to favorites (Short list of favorable picks

USER

Search
Location

Modify Type

Apply Filters

Favorites

Figure: Level 2.3

Level 2.4 | Subsystems of House Owner:

In this subsystem, user have to fulfill the instructed criteria to post for an advertisement. This section includes

1. Choose Plan (Free/Premium)

2. Post Details (Address, how many rooms etc.)

3. Visual Details (Photos, Videos, Google Map Links)

4. Authorization via OTP-Confirmation

5. Accept Terms and Conditions

6. Advertisement Boost

Figure: Level 2.4

Level 2.5 | Subsystems of contact information of *Basha Lagbe*:
Several contact option to reach the website includes-
1. Physical Address of Office
2. Dedicated 24/7 Hotline

3. Telephone and Mobile Number
4. E-Mail Address
5. What's App Number
6. Social Media Platform (Facebook Page, Facebook Group, YouTube Channel, Instagram Profile etc.)
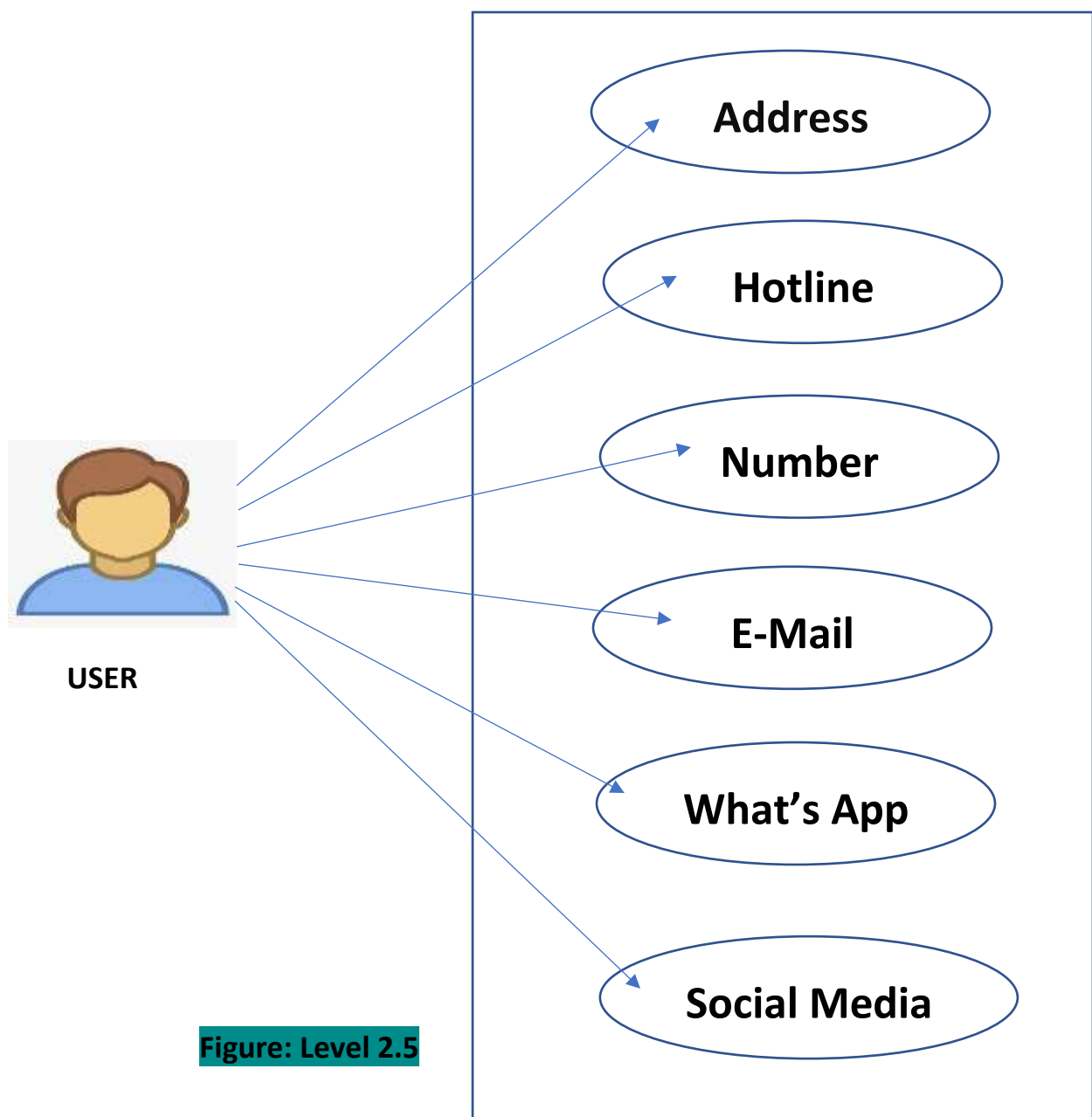

Figure: Level 2.5

Subsystem of support:

If user needs any information or assistance, he/she can contact via this infrastructure:
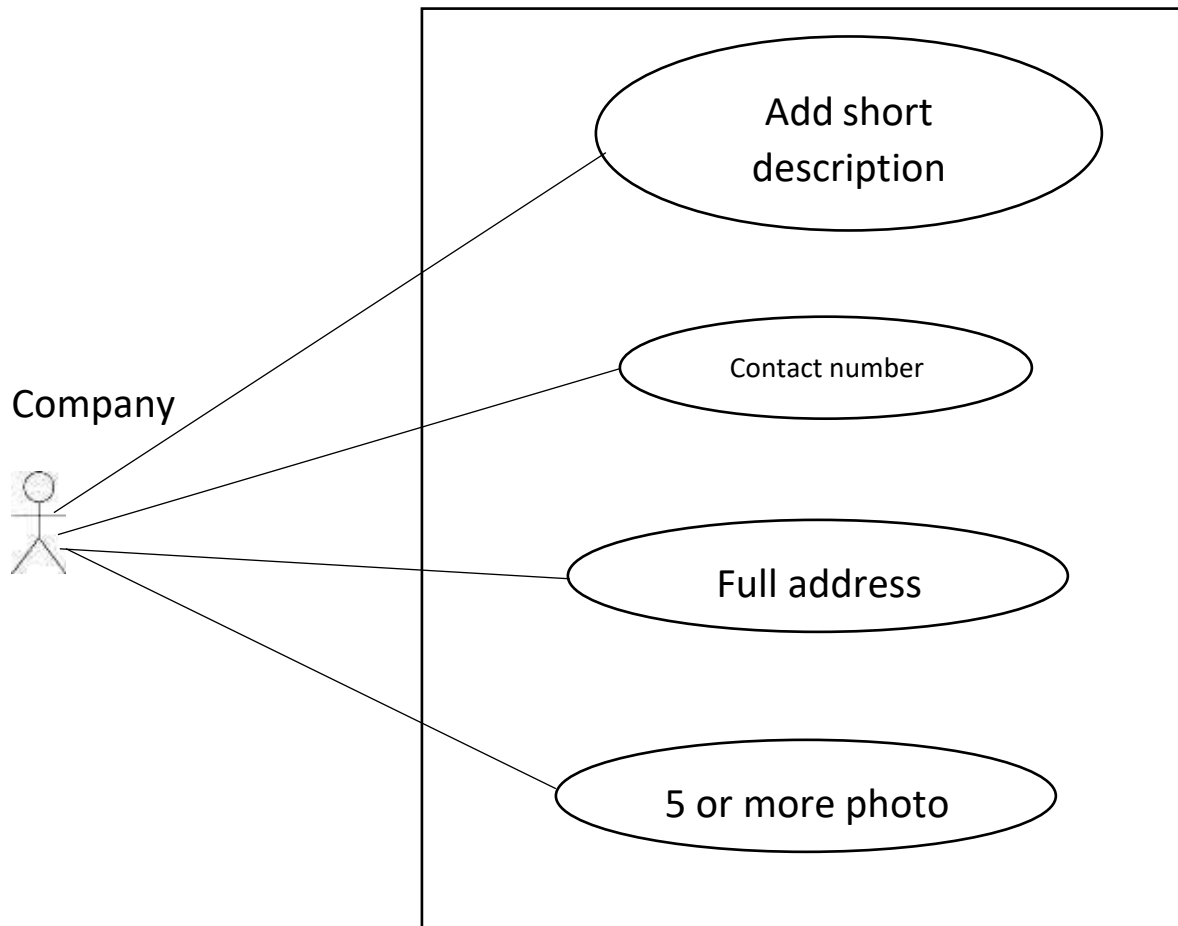
1.Hot-line

2. Live chat

3. E-mail

Figure: Level 2.5

Level 2.6 | Subsystems of system output:

This section includes the main purpose of the website-

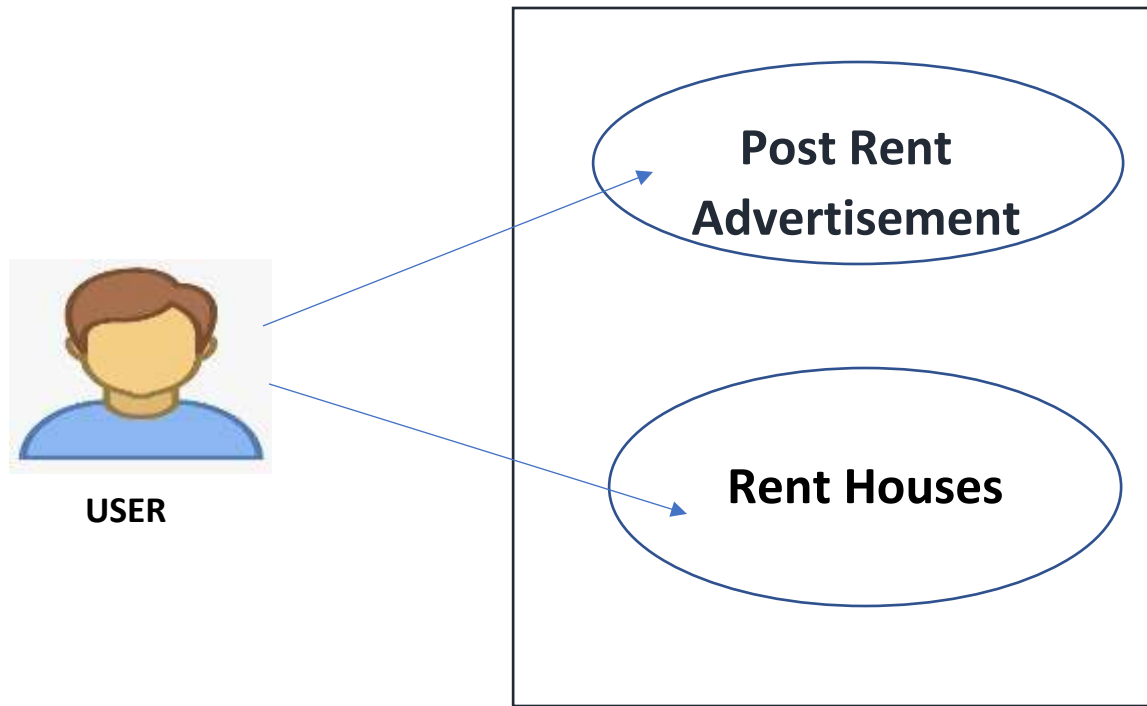1. Post advertisements (rent posts)
2. Find suitable home for users

Overall System Output: