

Table of Contents

1. Introduction
 2. Overview of the system
 2. A. User requirements
 2. A. a. Functional requirements
 2. A. b. Non-functional requirements
 2. B. System requirements
 2. B. a. Functional requirements
 2. B. b. Non-functional requirements
 3. System Architecture
 4. System Model
 5. Use Case of the system
 - 5.1 UC1: Registration
 - 5.2 UC2: Log-In
 - 5.3 UC3: Post Ad
 - 5.4 UC4: Edit Ad
 - 5.5 UC5: Delete Ad
 - 5.6 UC6: Searching Ad by category for buying home
 - 5.7 UC7: Searching Ad by category for renting
 - 5.8 UC8: Searching Ad by location
 - 5.9 UC9: View details of a post
 - 5.10 UC10: Finding interior designer
 - 5.11 UC11: Finding a moving service
 - 5.12 UC12: Finding a cleaning service
 - 5.13 UC13: Finding furniture and accessories shop
 6. Use Case Diagram
 7. Conclusion
- Glossary

Preface:

this report is designed for the stakeholders and developer team of 'Humble Abode' project. This project is a new app which will be developed by Group-H. This is a new idea which will fill up the lackings of some other home renting related apps.

Humble Abode Project	Version: <1.0>
Software Requirements Specification	Date: <03/24//19>
<document identifier>	

System Requirement Specification

Project Title: Humble Abode

- *have a comfortable home*

1. Introduction:

The system humble abode is a multi-purpose home solution which will help people to buy/rent or sell a house according to their preferences. It will also provide moving service, cleaning service, interior designers and shop suggestions for furniture and accessories.

System requirement analysis gives the professional systems engineer the tools to set up a proper and effective analysis of resources, schedules and parts needed to successfully undertake and complete any large, complex project. A software requirement specification is a description of a software system to be developed. It lays out functional and non-functional requirements and may include a set of use cases that describe user interactions that the software must provide.

In this report, we are presenting the system analysis of the system “humble abode”. There are seven sections including the introduction. After the introduction section we have overview of the system that includes user requirements, system requirements, system architecture and actors of the system. Scenario section plots a probable scenario of the usage of the proposed system. The use cases of the proposed system are described after scenario section. Use case diagram model is presented in use case diagram section. Summary of the report is given in the conclusion section. The last section contains the glossary.

2. Overview of the system:

2. A. User Requirements:

The user requirement document or user requirement specification is a document usually used in software engineering that specifies what the user expects the software to be able to do.

User requirements are as follows:

2. A. a. Functional Requirement:

1. There will be well-defined registration service for all kind of users.
2. Users will have to log in with user id and password to gain any details of a given post or to give a post.
3. The system will provide easy posting service for the sellers.
4. There will be categorized search option.
5. The system will also include Google Maps.

6. There will be proper information of buyers, sellers, interior designers, moving and cleaning services.

7. There will be web-link of furniture and accessories shops.

2. A. b. Non-Functional Requirement:

1. The system will provide proper information about house, mess and hostel for buying, selling and renting according to their budgets.
2. The system will be fast memory effective and user friendly.
3. The system will be universal software which means it will be available for everyone.
4. Internet connection is required.
5. Secure and safe

2. B. System Requirements

System requirement are the extended version of user requirements. It contains detailed description of the system functions and services along with optional constraints. It defines exactly what is to be implemented.

2. B. a. Functional Requirement

1. The system will provide posting ad service for selling or renting home
 - 1.a. User can post ad for selling through log in.
 - 1.b. User can post ad for renting through log in.
 - 1.c. User can view ad by category
 - 1.d. User can view ad by location
 - 1.e. User can see details of a post and owner's information through log in.
2. User can find an interior designer
 - 2.a. Available list of interior designers will be shown
 - 2.b. User can see their profile through log in.
3. User can find a moving service provider
 - 3.a. Available list of moving service providers will be shown
 - 3.b. User can see their profile through log in.
4. User can find a cleaning service provider
 - 4.a. Available list of cleaning service providers will be shown
 - 4.b. User can see their profile through log in.
5. User can view list of furniture and accessories shop and navigate their webpage
 - 5.a. Available list of furniture and accessories shop will be shown
 - 5.b. User can navigate their webpage through click on.

2. B. b. Non-Functional Requirement

Our project contains the following non-functional requirements according to the users:

1. The system shall respond fast, consume less memory space.
 - 1.a. The system shall start in minimum time.
 - 1.b. The system will be minimum.
 - 1.c. The system UI shall be user friendly.
 - 1.d. The search result shall have to be shown in minimum time.
2. The system shall fit screen of any type of device such as smartphone, tab etc.
 - 2.a. The system shall support down to Jellybean 4.3(API Level-18) version of Android.
3. The system shall require internet connection for viewing post and post details
 - 3.a. News feed will be updated each time when connected with internet .
 - 3.b. User can navigate on furniture and accessories shop through click on while connected with internet.
4. The system shall not require internet connection for viewing interior designers', moving service providers' and cleaning service providers' information, list of furniture and accessories shops' web page link.
 - 4.a. Update version is downloaded from play store.
5. The system data should be secure and reliable.
 - 5.a. The system shall be amenable to the rules and regulations.
 - 5.b. The posts shouldn't be modified without login.

3. System Architecture:

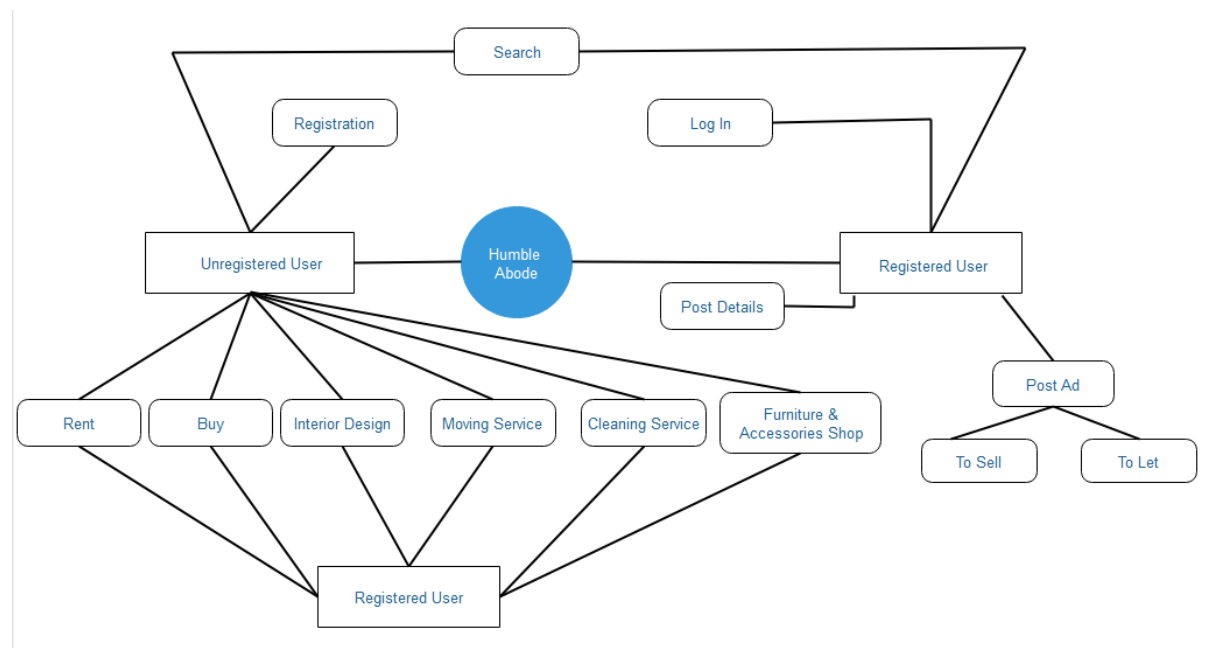


Figure 1: System Architecture of the system

4. System Model:

To describe our system model , data flow diagram is shown below:

Level 0 DFD:

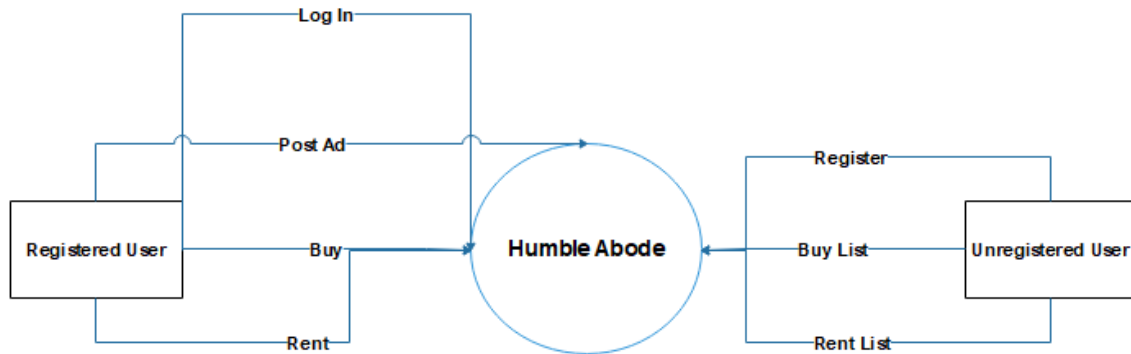


Figure 2: DFD of 'Home Page' of the system

Level 1 DFD:

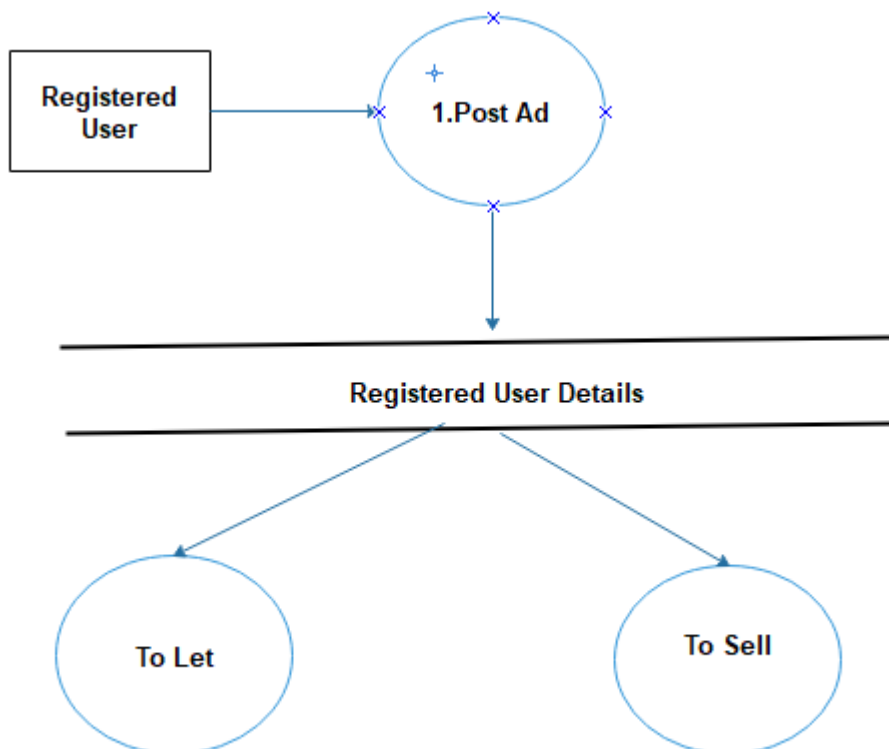


Figure 3: DFD of Posting Ad of the system

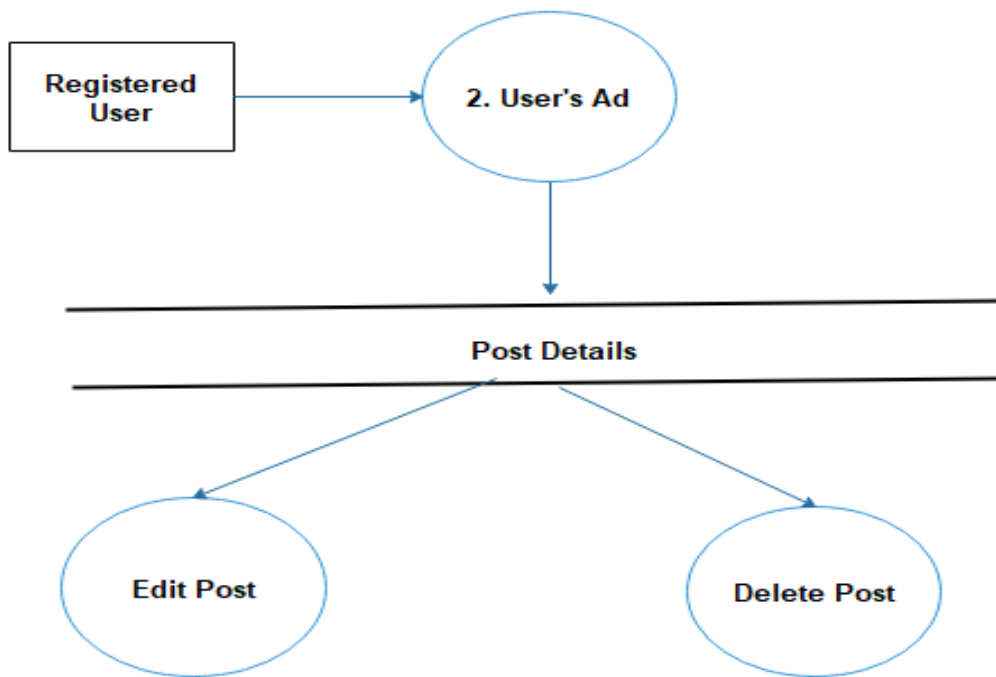


Figure 4: DFD of User's Post Handling of the system

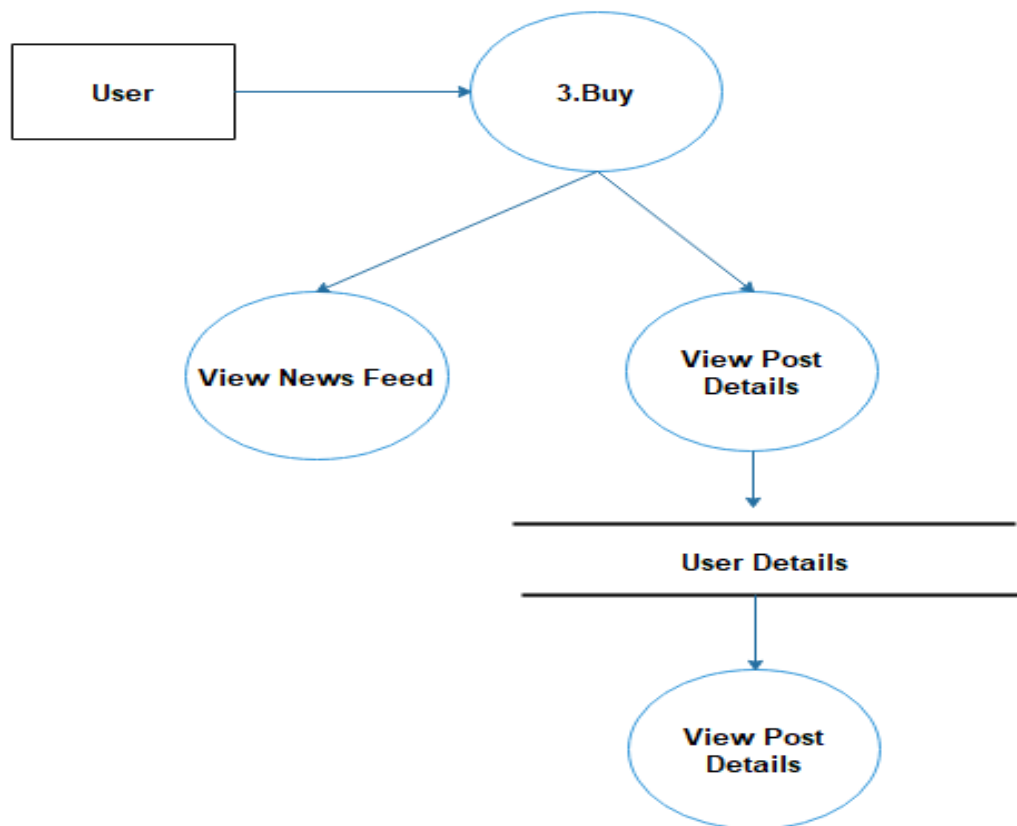


Figure 5: DFD of User's Posts for Buying News Feed of the system

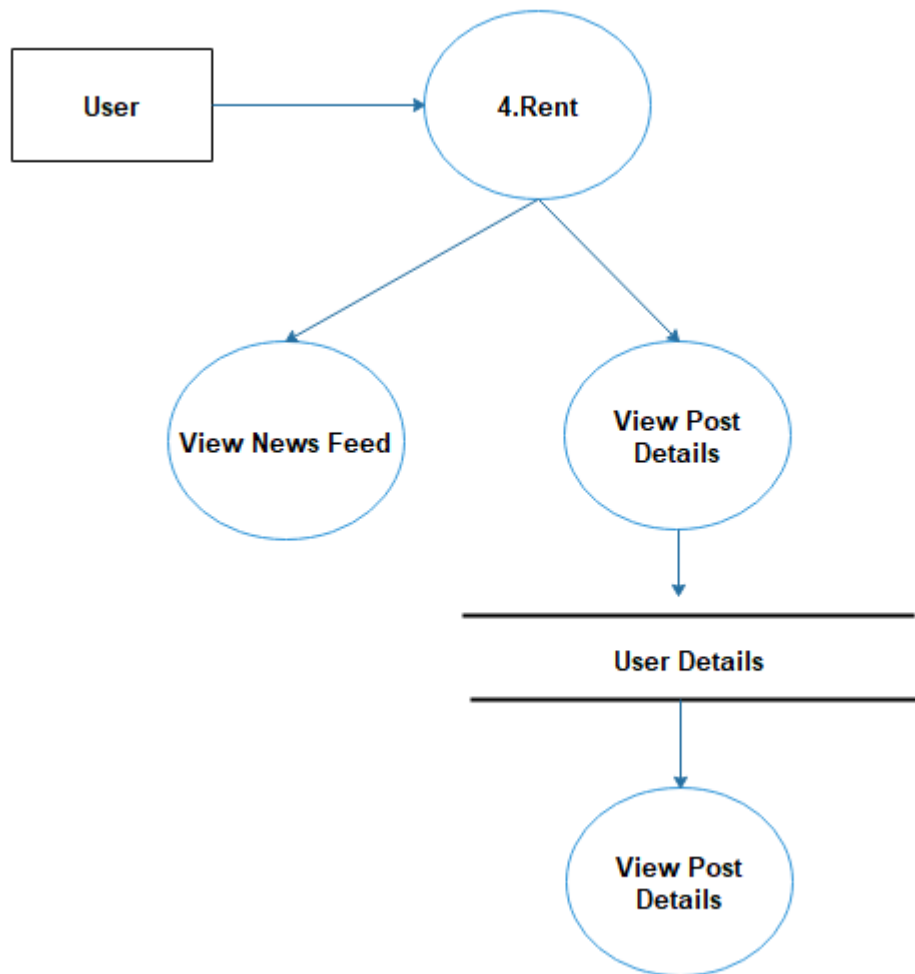


Figure 6: DFD of User's Posts for Renting News Feed of the system

5. Use Case of the System

The following use cases have been identified from the system specification

- Registration
- Log In
- Posting Ad
- Edit Ad
- Delete Ad
- Searching Ad by Category for Buying home
- Searching Ad by Category for rent
- Searching proper home by location.
- View details of a post.
- Finding Interior Designer.
- Finding a moving service provider

- Finding a cleaning service provider
- Finding online shops of furniture and accessories

There are two actors in the system. They are-

1. Registered users.
2. Unregistered users.

5.1. UC1: Registration

Actor: Unregistered users.

Pre-Conditions:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. The user will click on the register button.
2. Then the system will show him/her the registration page.
3. The actor will put his/her Name/username/password/National Id Number/Photo/Contact Number/E-mail.
4. After clicking the register button, the actor will now be registered.

Post-Conditions:

1. Actor is now registered.
2. Actor can log-in anytime by giving username and password.

Alternative Scenario

1. Actor may enter wrong information.

5.2. UC2: Log-in

Actor: Registered users.

Pre-Condition:

1. The software should be installed in the computer.
2. The software is open.
3. The user should be registered.

Main Success Scenario:

1. The user will click on the “Log-In” button.
2. Then the system will show him/her Log-in page.
3. User will put his username and password.
4. User will be Logged-In as actor.

Post Condition:

1. Admin is now Logged-In.
2. Actor can now post ad (Owners) or see owner’s details and confirm a deal (Customer).

Alternative Scenario:

1. Actor may enter wrong username and right password.
2. Actor may enter right username and wrong password.
3. Actor may enter wrong username and wrong password.

5.3. UC3: Post Ad

Actor: Registered users.

Pre-Condition:

1. The actor must be logged-in.

Main Success Scenario

1. The user will click on the “Post Ad” button.
2. There will be two options – Rent/Sell.
3. Then the system will show him/her ‘Post Ad’ page.
4. Owner will put category, location, photo, price and description of his\her home, boarding, hostel or mess etc.
5. Then he\she will click ‘Post’ button.

Post Condition

1. Ad will be posted

Alternative Scenario

1. Owner may not enter any one of the requirements. System will take appropriate action.

5.4. UC4: Edit Ad

Actor: Registered users

Pre-Condition:

1. The actor must be logged in.
2. The post must be owner's post.

Main Success Scenario:

1. The actor will click on "My posts".
2. The actor's posts will be shown.
3. The will have to find the post he/she wants to edit.
4. Then he will click on "Edit" button of that post.
5. The actor will edit his post as necessary.
6. Then he will click on "Post" button.

Post Condition:

1. The post will be edited.

Alternative Scenario:

1. User may not enter any one of the requirements. System will take appropriate action.

5.5. UC5: Delete Ad

Actor: Registered users

Pre-Condition:

1. The actor must be logged in.
2. The post must be owner's post.

Main Success Scenario:

1. The actor will click on "My posts".
2. The actor's posts will be shown.
3. The actor will have to find the post he/she wants to delete.
4. Then he will click on "Delete" button of that post.
5. The actor will delete his post.

Post Condition:

1. The post will be deleted.

Alternative Scenario:

1. User may not enter any one of the requirements. System will take appropriate action.

5.6. UC6: Searching Ad by Category for Buying home

Actor: Registered users, unregistered users.

Pre-Condition:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. Actor will click on 'Buy' button.
2. Ad page will be appeared.
3. Actor will click on his preferable tab of category- Apartment/House.

Post Condition:

1. The selected category related posts will be shown.

5.7. UC7: Searching Ad by Category for Renting

Actor: Registered users, unregistered users.

Pre-Condition:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. Actor will click on 'Rent' button.
2. Ad page will be appeared.
3. Actor will click on his preferable tab of category- Family/Mess/Sublet/Hostel/Boarding.

Post Condition:

1. The selected category related posts will be shown.

5.8. UC8: Searching Ad by Location

Actor: Registered users, unregistered users.

Pre-Condition:

1. Actor have to click on 'Buy' or 'Rent' button. Then Ad page will be viewed.

Main Success Scenario:

1. Actor will click on Search icon.
2. Search bar will be appeared.
3. Actor will type his preferable location.

Post Condition:

1. Posts will be shown according to the actor's location.

5.9. UC9: View Details of a Post

Actor: Registered users.

Pre-Condition:

1. Actor must be logged in.

Main Success Scenario:

1. Actor will click on the post.
2. Post details will be appeared.

Post Condition:

1. Actor will see more details about the post and about the owner.

5.10. UC10: Finding Interior Designer

Actor: Registered users, unregistered users.

Pre-Condition:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. Actor will click on 'Interior Design' button in home page.
2. A list of interior designers will be shown.
3. Actor will click on one of the designer as they like.

4. The Log-In page will be shown if he is not already logged-in.
5. After logging in, the actor can see the profile of that interior designer.

Post Condition:

1. Actor will see the details of an interior designer.

5.11. UC11: Finding a Moving Service

Actor: Registered users, unregistered users.

Pre-Condition:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. Actor will click on 'Moving Service' button in home page.
2. A list of moving service providers will be shown.
3. Actor will click on one of them as they like.
4. The Log-In page will be shown if he is not already logged-in.
5. After logging in, the actor can see the profile of that moving service provider.

Post Condition:

1. Actor will see the details of a moving service provider.

5.12. UC12: Finding Cleaning Service

Actor: Registered users, unregistered users.

Pre-Condition:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. Actor will click on 'Cleaning Service' button in home page.
2. A list of cleaning service providers will be shown.
3. Actor will click on one of them as they like.
4. The Log-In page will be shown if he is not already logged-in.
5. After logging in, the actor can see the profile of that interior designer.

Post Condition:

1. Actor will see the details of a cleaning service provider.

5.13. UC13: Finding Furniture and accessories shop

Actor: Registered users, unregistered users.

Pre-Condition:

1. The software should be installed in the android device.
2. The software is opened.

Main Success Scenario:

1. Actor will click on 'Furniture and accessories' button in home page.
2. A list of online shops will be shown.
3. Actor will click on one of the shops as they like.
4. The click will lead the actor to that shop's webpage.

Post Condition:

1. Actor can navigate through the webpage.

6. Use Case Diagram:

The use case diagram is illustrated below –

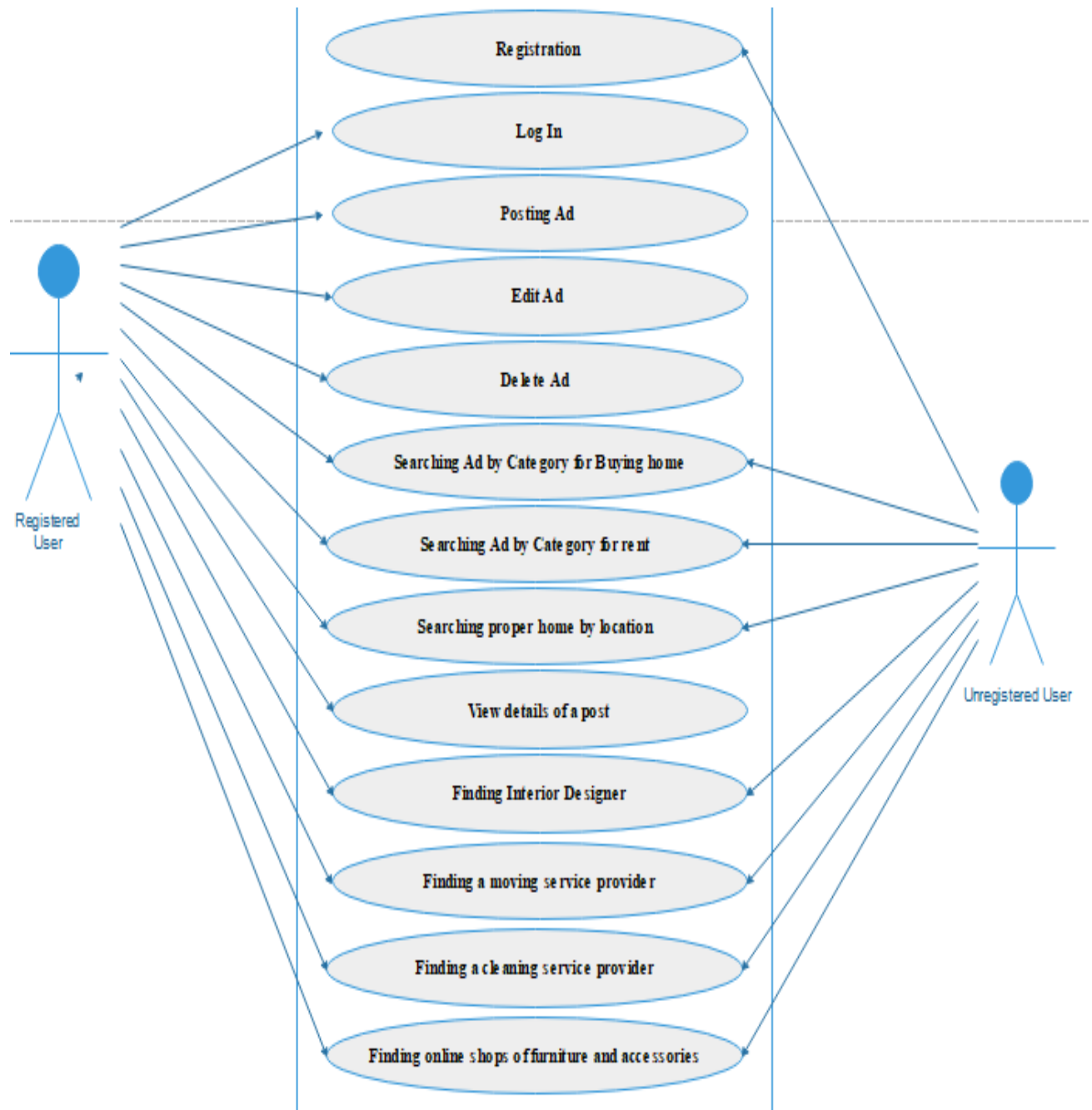


Figure 7: Use Case Diagram

7. Conclusion:

We are hopeful that this SRS report of our software solution will make a clear view of the system to the software farm as well as to the customers. The ability of the software to satisfy the users is also represented by this report.

Client

Firm

Glossary:

Actors – Registered or unregistered users.

API – Application Programming Interface

DFD – Data Flow Diagram

SRS - System Requirement Specifications

UC – Use Case

UI – User Interface