

# Implementation and Conclusion Report

## **Project Title: Humble Abode**

*-have a comfortable home*

### **1. Introduction:**

The objective of this report is to describe the implementation of our project “Humble Abode”. Implementation is the process of realization of an application, or execution of a plan, idea, model, design, specification, standard, algorithm, or policy. It is the process where all the previous ideas are put together to make the system work. There are two important parts included in this report those being the architectural pattern and detailed class diagram.

This report includes six other sections. The second section contains the architectural pattern used in our system, the third section presents the detailed class diagram including all the classes used to develop our system. The fourth section holds the snapshots from our working system to show that they meet all the requirements. The fifth section contains limitation of the system, sixth section includes the future work of the system and lastly the seventh section concludes this report.

### **2. Architectural Pattern:**

An architectural pattern is general and reusable solution to a commonly occurring problem in software architecture within a given context. It defines the overall structure of the system. For our system, we have chosen MVC pattern as the system’s internal architecture resembles this pattern closely.

According to MVC pattern, three different parts of our system are:

#### **a. Model:**

This level is important one as it represents data to the user and defines where the applications data objects are stored. In our application there is a database which contains system data and model classes for manipulating data.

#### **b. View:**

A view is a visual representation of the MVC model. This level creates an interface to allow the actual output to the user. In our android application, there are activities that show the data to the user. So, activity classes like display, files are put in view component. View handles requests from the user and informs the controller.

### c. Controller:

Controller manages user interaction and passes the interaction to the view. It acts as a link between the user and the model. There are classes to interact with user which are considered as components of this level.

MVC pattern for our system is shown in figure 01:

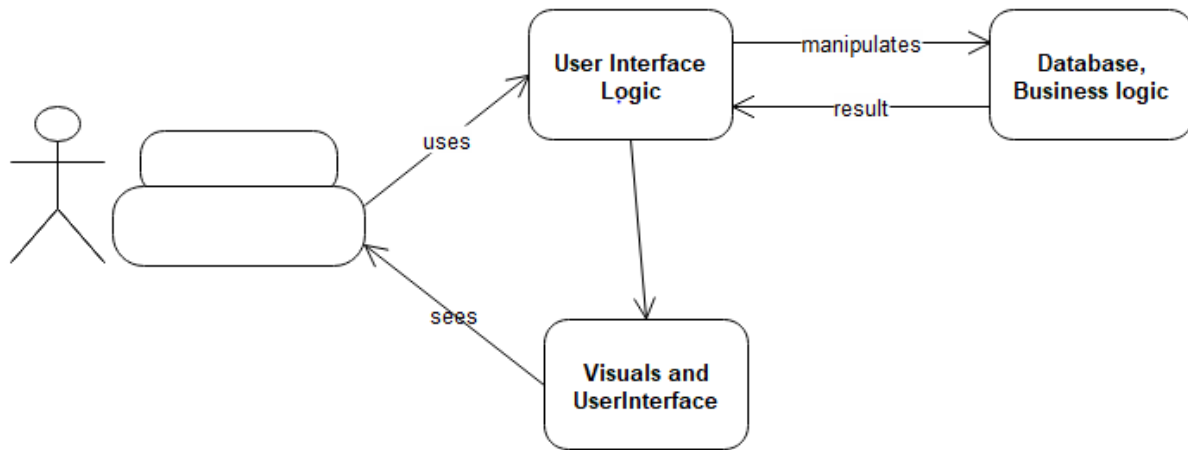


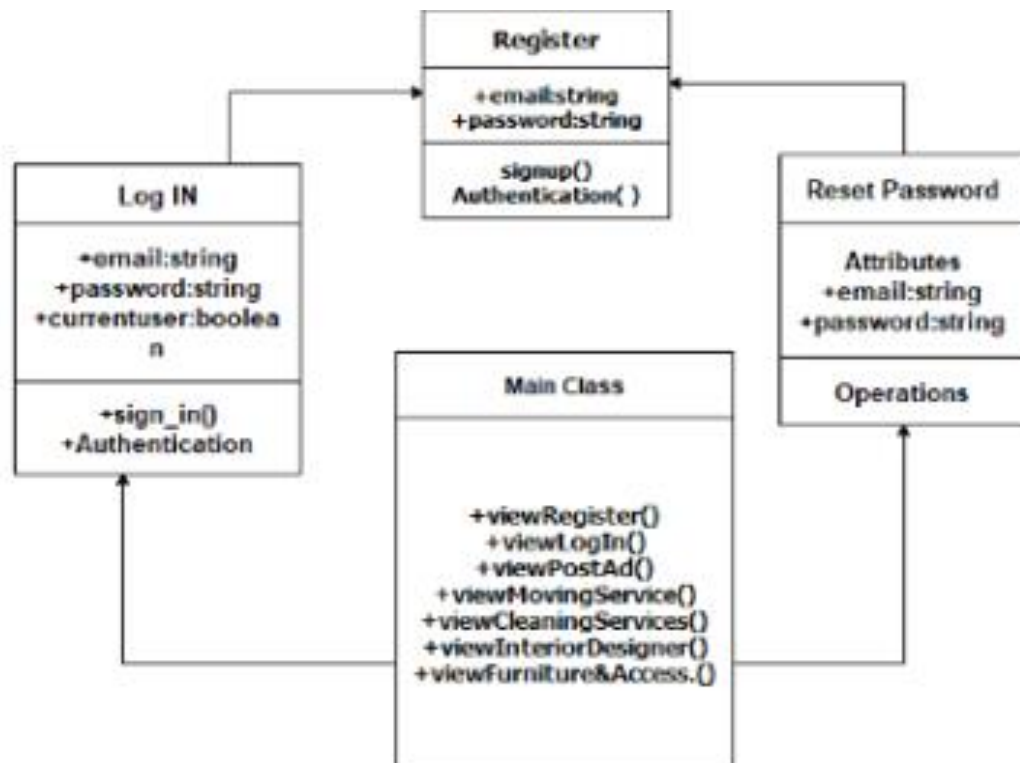
Fig 01: MVC pattern in our system

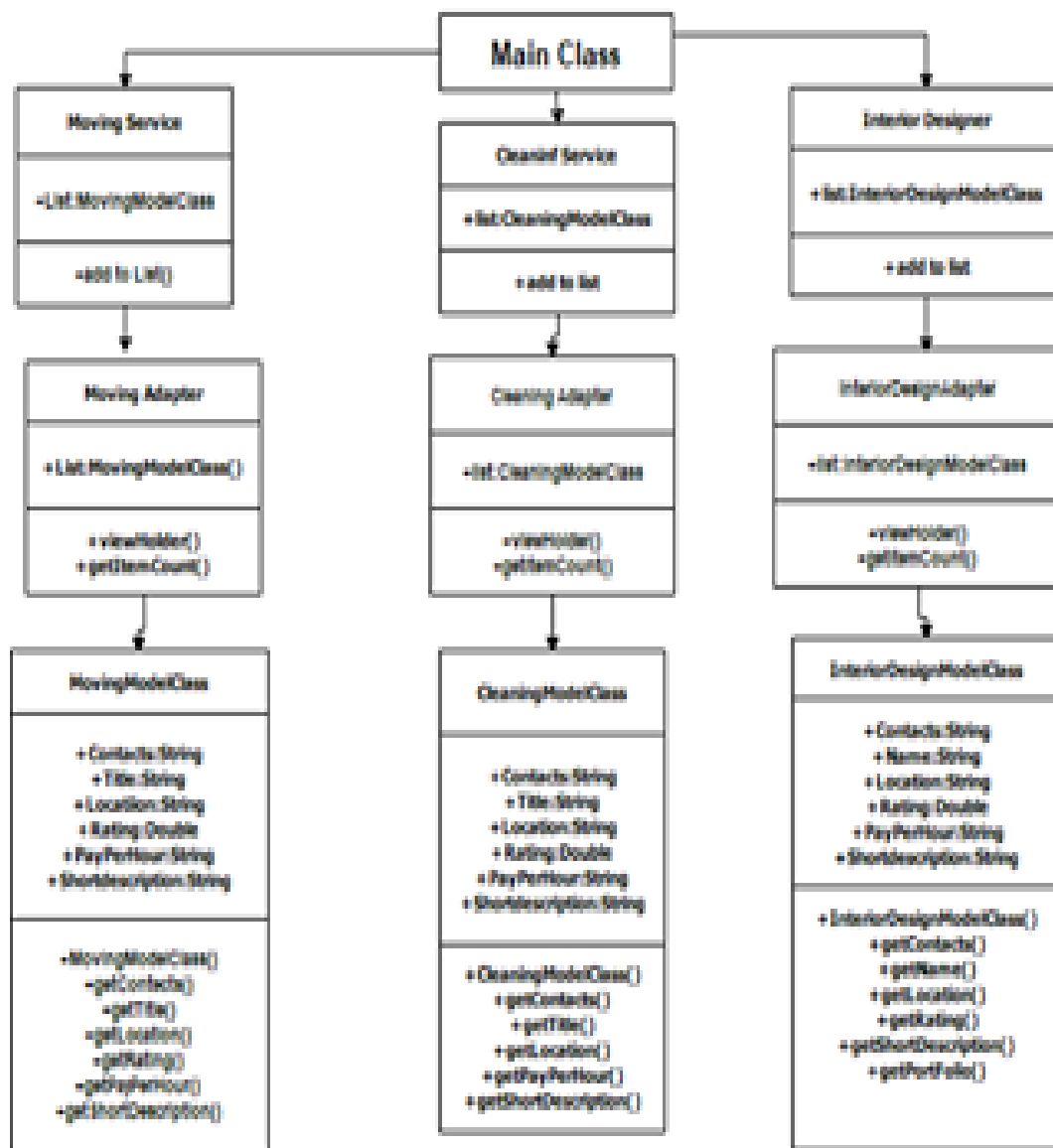
### Important advantages of MVC model and causes behind choosing it:

- Faster development process.
- Ability to provide multiple view.
- Modification does not affect the entire model.
- Friendly development platform and supportive for inexperienced developers.
- MVC pattern fits for application requiring strict maintainability and test ability standards.

### 3. Detailed Class Diagram:

A detailed class diagram is nothing but the reflection of implementation in class diagram. The detailed class diagram of our system is given in figure 02:





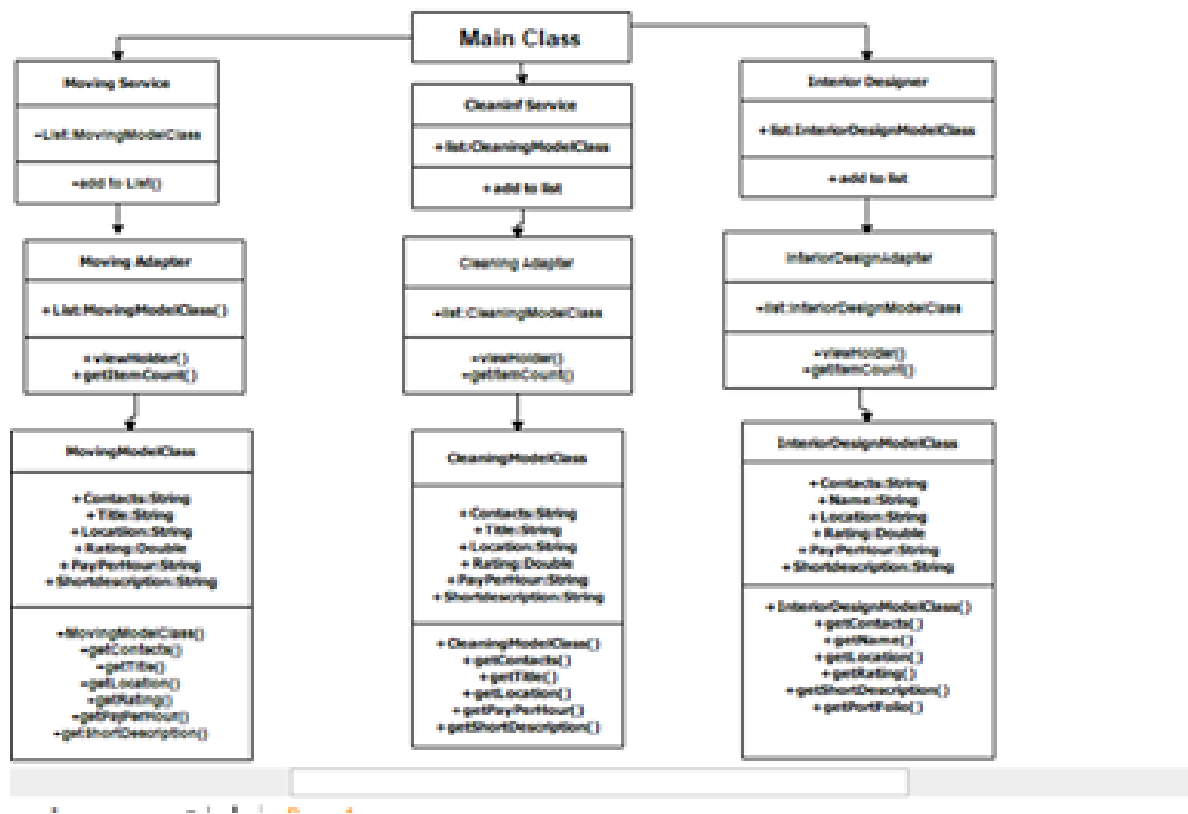


Figure02 : Detail Class diagram

## 4. Snapshots of Our System:

The snapshots that proves all the use cases are fulfilled in our application are given below:

### A. Snap of Opening Page:

It shows the page after opening the application:

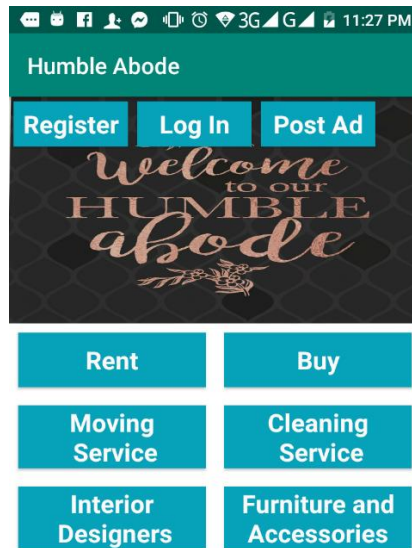


Figure 03: snap of opening page

## B. Snap of Registration:(UC-1)

It shows the registration page:

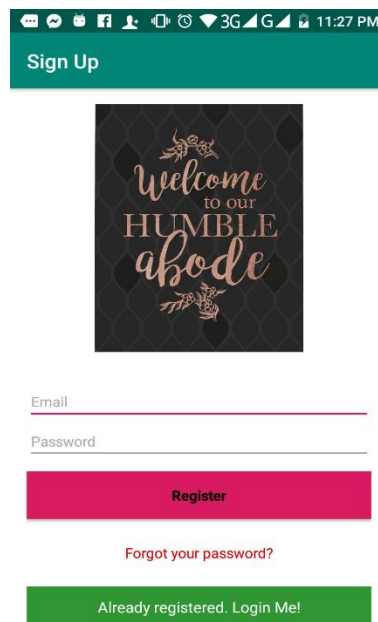


Figure 04: Registration page

### C. Snap of the Log-In Page(UC-2):

It shows the log-in page:

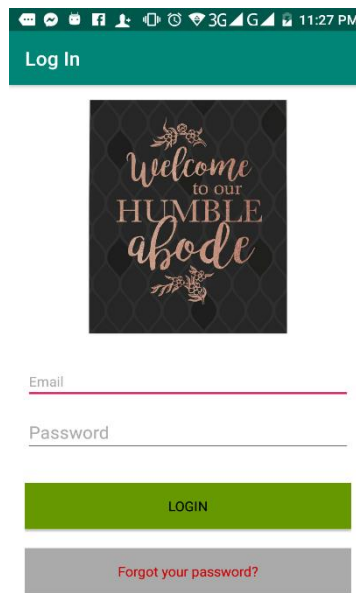


Figure 05: Snap of the Log-In page

### D. Snap of the Reset Password page:

It shows the reset password page.

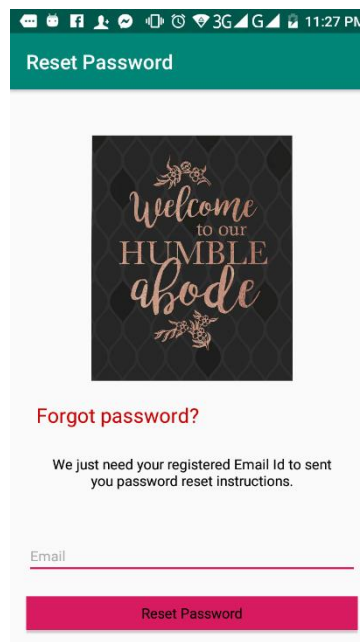
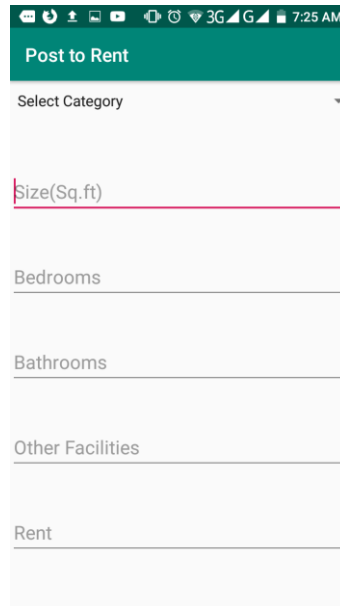


Figure 06: Snap of the Reset Password Page

**E. Snap of the Post Ad page(UC-3):**

This shows the page after clicking the post ad button.



The screenshot shows a mobile app interface for posting a rental advertisement. The title bar is green and says "Post to Rent". Below it is a dropdown menu labeled "Select Category". There are five text input fields: "Size(Sq.ft)", "Bedrooms", "Bathrooms", "Other Facilities", and "Rent". Each field has a horizontal line indicating where to type. The status bar at the top shows various icons and the time 7:25 AM.

**F. Snap of Searching Ad for Buying Home(UC-6):**

This shows the page of posts for buying home.

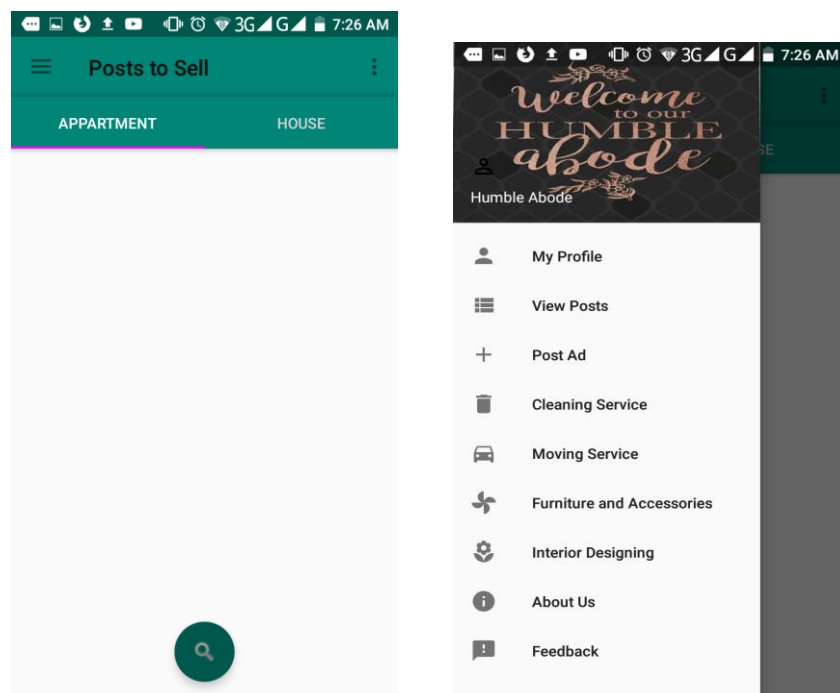


Figure 05: Snap of the Searching Ad for Buying Home



### G. Snap of Searching Ad for Renting Home(UC-7):

This shows the posts for renting home.

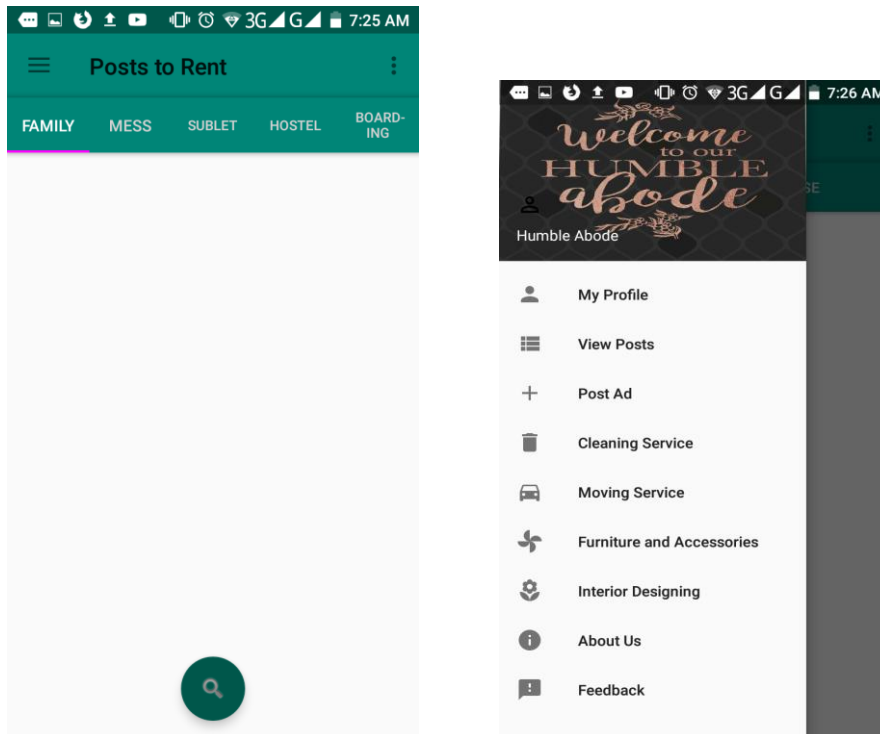


Figure 05: Snap of the Searching Ad for Renting Home

### H. Snap of Searching Ad by Location(UC-8):

This shows ads can be viewed by selecting a location.

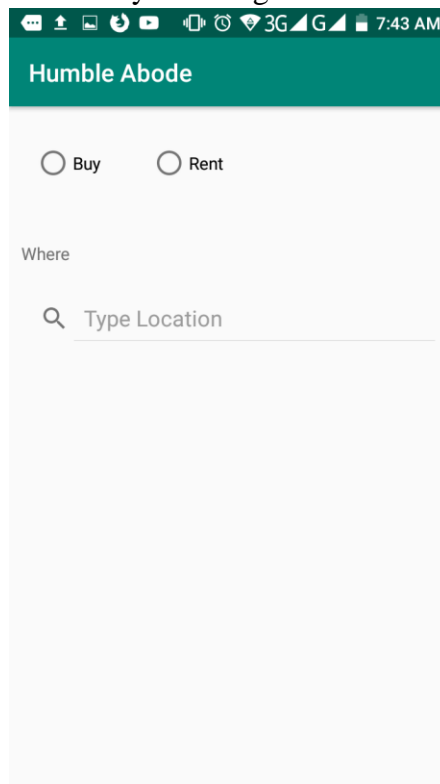
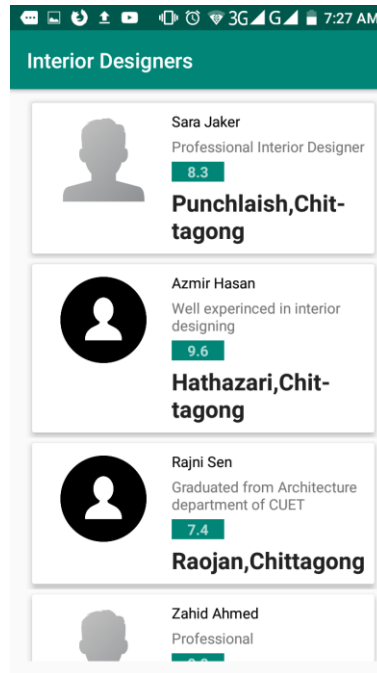


Figure 05: Snap of the Searching Ad by Location

**I. Snap of Finding Interior Designers(UC-10):**



**J. Snap of Finding Moving Service(UC-11):**

This shows the list of moving services available.

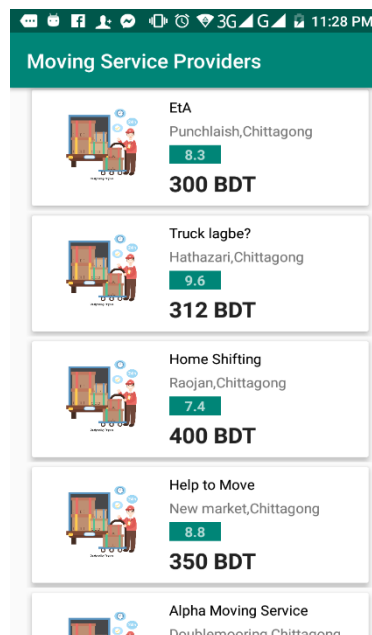


Figure 0 : Snap of moving service providers list

### K. Snap of Finding Cleaning Service(UC-12):

This shows the list of cleaning services available.

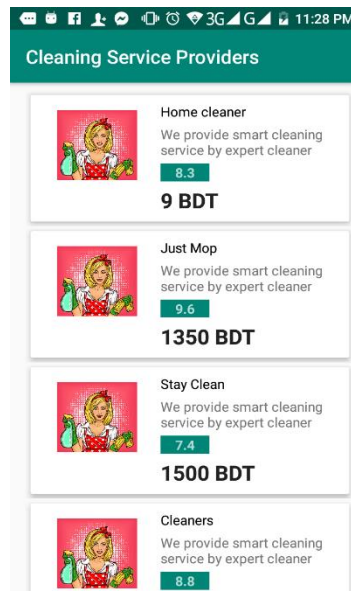


Figure 0: Snap of the list of cleaning services

### K. Snap of Finding Furniture & Accessories Shop(UC-12):

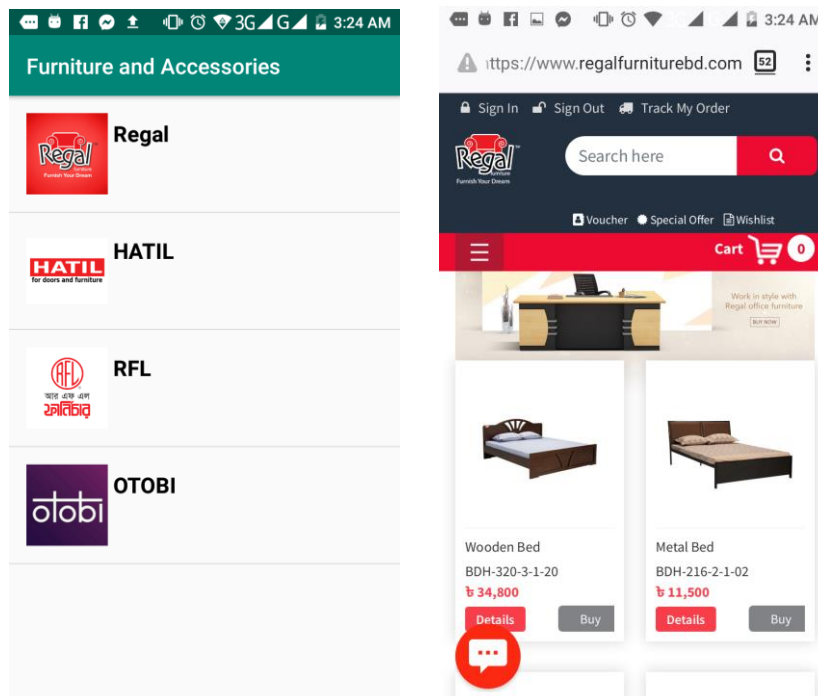


Figure 0: Snap of the list of Furniture & Accessories Shop

## **5. Limitation of Our System:**

Our system has some limitations too. It doesn't cover all of the areas of our country yet. Also we cannot locate any exact place through the app. There are some essential services lacking in the system. There are not enough service providers available yet. Though, all of these limitations can be overcome in the future.

## **6. Future Work:**

There are many scopes of improvement for our system. In future, the limitations of the system will be tried to resolve to make it a perfect android solution. We will use Google Map to get exact location. It can be improved to be used in all parts of our country. Other services like plumbing service, electrician service can also be added to make it more useful for our users. It can be made more dynamic, more responsive and efficient.

## **7. Conclusion:**

So, here is our system and we have tried to make this system more user-friendly. We hope users will use it and get rid of the hassle of house hunting. Requirements were fulfilled while maintaining the visual and operational simplistic design. This project helped us to bond together, work together. We learnt new ways of thinking in analysing, designing and implementation process. We, the development team, thank our Project Supervisor cordially for his help and detailed evaluation and corrections in every stage of the development process. We are very lucky to have him as our Project Supervisor. This project is a success for the team and a grand experience for every individual.



