

**CSE-100**  
**Project Report**  
**Flat Buy and Rent Service**  
(using CPP)

A Project submitted to the Department of Computer Science and Engineering  
in partial fulfillment of the requirements for the degree of  
B.Sc. in Computer Science  
by

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# Declaration

It is hereby declared that

1. The project submitted is my/our own original work while completing degree at BUBT.
2. The project does not contain material previously published or written by a third party, except where this is appropriately cited through full and accurate referencing.
3. The project does not contain material which has been accepted, or submitted, for any other degree or diploma at a university or other institution.
4. We have acknowledged all main sources of help.

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## Abstract

A third of Bangladeshi residential properties are rental properties and a significant proportion of these properties are managed by property management companies or Property Owner . Not all the Modern residential property management companies are well equipped in property management software, with most tasks carried out by property manager with out any help of computer software. Hence there is need to develop a rental house management system that can simplify work for the rental managers so that all their work can be efficient and effective. To get essay information about how rental houses and selling properties are currently being managed, I prepared questionnaires and submitted them to a number of peoples and from the information I gathered I realized all work was done manually with a lot of paper work involved. It's also difficult to look for houses physically who has daily basis job. It is also cost ample of time, money and need extra efforts. A city like Dhaka people basically need to change apartment in regular basis its become difficult for them go door to door asking for rental. Number of property owner want to sell their property but they do not find actual buyer also vice versa issue for property buyer. Considering those facts, I decided to develop a Flat sell rent soft wear system that can solve all the problems experienced with the current manual system. Which can give buyer and seller a easy access to communicate each other and help their cause. The system will be developed in such manner that it provides maximum user friendly interface.

Once you the user logs in the system automatically it will give you all the information you needed. about house rent, location, property details. Also it will give you filter to choose accordingly as you desire. The soft wear will ask you to register with email or phone .so you can save your credential for future use.

Most families choose to rent houses based on their income and family situations; unfortunately, there may not be enough good quality rental housing for these families Housing is a major problem in Bangladesh especially in Dhaka city.

The above statement gives a clear declaration as to why rental house management system need to be developed.

**Keywords:** Property Management, Residential Property Sell, Computer Software, Bangladesh

# Acronyms List

Mail = E-mail

Pass = Password

FAQ = Frequently Asked Questions

CPP = C Plus Plus ( Language )

IoT = Internet of Things

BD = Bangladesh

KYC = Know Your Customer

TiM = Trust in Motion

FSaRS = Flat Sell and Rent Service

VPN = Virtual Private Network

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# Chapter 1

## Introduction

### 1.1 Introduction

In recent years, accommodation is considered as a biggest problem in developing countries.

### 1.2 Objective

This project depicts a picture of online flat buy and rent, and provides a huge information about that . We have tried a lot to make it more user friendly.

#### 1.Admin panel

- a. Add flat
- b. Display flat
- c. Check specific flat
- d. Edit flat

#### 2. Customer

- a. Check flat for rent
- b. Check flat for buy
- c. Book flat for rent
- d. Book flat for buy

#### 3. Change password

#### 4. Help line

#### 5. Exit

## **1.3 Project Scope**

The scope of this project “Flat sell and rent service “is completely developed by c Programming which comprise a lot of valuable information about the online accommodation service. It helps everyone to choose their dream accommodation. As the software provides services via online so it does not matter where someone is living he/she can easily access our software.

## **1.4 Objectives of This Project**

In a brief “Flat rent and buy service “is developed successfully by following some specific procedure such as the rudimentary step, proper plan, proper execution of the plan and last but not least the rules and regulation. It is highly determined to fulfil all the goals within the set time and to make it a convenient thing to use.

## **1.5 Our Contributions**

We are trying to use the online platform to provide people some useful information about flat rent and sell. Nowadays it a extensively hectic task for the people of Dhaka city to manage a flat within a short period of time. Here we made things easy for those who are struggling a lot to manage a flat or a flat they want to sell. Again we are covering the whole area of the Dhaka city an one can easily search on online to get some information regarding that. Another thing is that we are also providing a minimal price for our customers.

## **1.6 Conclusions**

To sum up I would like to say that, there is no unmixed good in this earth and we are are not also beyond that. We have tried a lot to come up with a user friendly panel so that our valuable customers find it easy to access. Still it is not possible to be 100accurate, so we also have some inaccuracy but it is not done yet. We are still working on it that how we can make it more convenient for our users. The further enhancement is also possible which is going to be more accurate. We are going to work on our project continuously and we will be coming up with more effective and efficient feature in near future.

# Chapter 2

## The advent of flat rent and sell service in the modern era of internet .

### 2.1 Introduction

Real estate in Bangladesh has developed dramatically in recent years due to the construction boom and increasing number of high-rise buildings in the major urban centers of the country, most notably Dhaka .In 1991, REHAB (Real Estate and Housing Association of Bangladesh) was formed with only 19 members which later increased to 1,082, as of 2011. In 2000, National Housing Authority Act was adopted and approved by the national assembly and subsequently a new body named National Housing Authority was established, dissolving the former state organizations of Housing and Settlement Direction (HSD) and Deputy Commissioner Settlement (DCS). The act finally came into effect on 15 July 2001. The real estate scene in

Bangladesh has always been on the rise, with new players entering the industry on a regular basis. They are in the form of developers, raw material providers and, of course, the individual land owners developing their own properties. Transactions are where the trouble lied for the everyday person. Penetration of flat rent and buy service is changing the way people interact with real estate. It is a convenient place which is reliable and easy to access as well.

### 2.2 Beginning of the real state

Real estate development is a business activity concerned with land and construction that provides value-adding services by developing residential, commercial, institutional, industrial and integrated projects and related infrastructure. The concept of real estate in Bangladesh emerged after liberation. Over time, real estate has become a subject of keen interest for the general public, businessmen and other stakeholders. The real estate and housing sector is one of the main drivers of any nation's economic development and industrialization. In Bangladesh, real estate has emerged as a crucial sector of our economy. It has a huge multiplier effect on

economic activities and therefore, is a big driver of economic growth. It is one of the largest employment-generating sectors after agriculture and garments. Not only does it generate direct and indirect employment opportunities, it also stimulates demand for ancillary industries, for example steel, cement, tiles and sanitary ware, cable and electric ware, paint, glass and aluminum, brick, building materials, and consumer durable. As the extent of globalization spreads, the process of urbaniza-

tion increases. It has increased the momentum of urbanization in both developed and developing countries. The ever-increasing urban population is creating an increasing demand for housing and shelter. The right to shelter is a fundamental right embodied in both the Universal Declaration of Human Rights and the Constitution of Bangladesh. But Bangladesh being a poor developing country, it is almost impossible for the government to ensure housing for all. In Bangladesh, the rate of urbanization is very high, aggravated by the high population growth rate and rapid rural-urban migration. The trend of urban growth in this country is about 3.25

## **2.3 Impact on our economy**

The real estate sector is the growth center for the development of any economy. As one of the most densely populated countries in the world, Bangladesh has been experiencing severe housing shortages. With the majority of the population in the middle and low-income groups, ensuring housing for all is difficult here. The private sector housing developers have met a large proportion of the national housing demand in the last 40 years. But Bangladesh also suffers from a scarcity of land. It is an agriculture-based country where the urbanization level of 28In addition, the sector also contributed to the national economy through linkage industries, such as MS bar, cement, brick, sand, ceramic tile, paint and other fixtures and fittings. Real Estate and Housing Association of Bangladesh (REHAB) declared that the sector along with its linkage industries contributed about 12

## **2.4 What actually flat rent and sell service is**

Flat rent and sell service is the new name making ripples in the ocean of property dealings. It is an online property portal holding the largest collection of property listings in Dhaka city with the intent to create an online and offline marketplace where sellers, buyers, landlords, tenants, developers and real estate investors can engage in completing any real estate transaction securely and efficiently. Flat rent and sell service is a trusted real estate expert with complete knowledge of Dhaka's real estate market, having the ability to guide any person or company, regardless of their interest in real estate, so that they can make the right decision to satisfy their real estate requirements.

## 2.5 Conclusion

We all know that after food and clothing, housing is one of the basic rights of every citizen. To meet this fundamental need, the private real estate and housing developers initiated a real estate development venture a couple of decades back, especially to address the growing urban housing problem. Private sector initiative sparked a remarkable boom in investment and development activities. The relationship between real estate prices and general economic conditions have an extensive history, beginning with the ways in which long swings in construction and price development were synchronised with long swings in aggregate economic activity. The sector has extensive potential to attract investment to its various segments. However, progress is possible only with the joint efforts of both the industry and the government. The government must provide fiscal incentives to developers to build low-cost and affordable housing for the masses. Realistic and long-term policy guidance for the real estate sector must be taken by government to encourage investment and development in Bangladesh's real estate. The notion of 'affordable housing' must be popularised to set a minimum standard of accommodation for all citizens. Ensuring housing for all is obligatory for the development of a nation. Without proper accommodation, we cannot develop a capable work force for contributing to the national economy. Judging the multi-sectoral nature of housing, it is clear that one or two isolated initiatives will not be enough to solve the urban housing problem. The government should come forward and take the lead role; private developers can only be an ancillary actor in this sector.

# Chapter 3

## Proposed Model

### 3.1 Introduction

Our total system is maintained manually. We consider that, information of our customers is highly valuable. Regarding that we try to keep and secure every single data of our customer for further convenience. As we are dealing with a lot of stuff at a time, our system requires an adequate amount of paperwork. We also have our registers, where we maintain our data carefully .

### 3.2 User Requirement

We tried our best to make our scheme way more convenient so that we can maintain our data effectively and efficiently. Our system is incredibly dynamic , it takes a trifling amount of time to process the whole system. Lastly, we made our system completely user friendly.

### 3.3 Software Requirement

#### **Platforms:**

Windows 10  
CodeBlocks (20.3)  
Report (Latex)  
Enough storage

#### **Hardware features :**

4 GB RAM  
AMD Ryzen 4 3700x  
SSD 32 GB  
HD 1 Tera Byte

## **3.4 Conclusion**

As we mentioned before, Customer information is more importantly valuable for us. So, we designed our program in a way that everyone will find it very easy and comfortable to use. In order to make a user friendly program, we considered an easy hardware system to run the program. The basic hardware and software requirements will allow a maximum number of clients to use our program.

# Chapter 4

## Depiction of our Scheme

### 4.1 Introduction

Our ambition was to make our system eye-catching, for this reason we have used different colour grades in every distinct section, as a result it became more colourful and fun to access . Our system starts with BismillahirRafmanirRahim, which is a Islamic phrase and the meaning of this phrase is , we are starting with the holy name of Almighty Allah (STA). Right after that ,when a customer will press the enter button he will get to know the name of our software ,which will be represented in a greenish colour grade. After that we have to press the enter button again , then we will encounter our control system, which is represented in an ash colour grade. The control system of our software consists of three distinct sections.

1. Admin panel
2. Customer panel
3. Exit.

### 4.2 System Demonstration

1.**Admin Panel:** This particular section can only be accessed by the admin, therefore we have secured this section with a security lock. For entering in this section a password is needed ,without the password nobody can access this section. Only the admin can access the admin panel by providing the appropriate password. The admin panel of our system contains a plethora of options to maintain our whole system in a comfortable way. For instance

- Add flat
- Display flat
- Check specific flat



- Edit flat
- Delete flat
- Bookings
- Change password
- Go back

**Add Flat:** Our software mainly deals with flat buy and rent services, so this specific section is used to add flats. Add flat option also has two other parts as well such as , add flat for rent and add flat for buy. When the admin is going to add a flat for rent or buy that flat will be available in our software . While adding a flat we do consider a lot of things . First of all we give a distinct code number for that flat, then we add the location of that flat, after that the total area of that flat and lastly, the features of the flat that is being offered. This is all for adding a specific flat.

**Display Flat :** After adding a flat we have to make sure that it is added successfully or not . For doing this we created a section named display flat where we can see our added flats. It also has a resemblance with the add flat option because it also contains two different parts , display flat for buy and display flat for rent respectively.

**Check Specific Flat :** This is one of the most efficient features of the admin panel. As we are dealing with the flats of Dhaka city , we have to work with plenty of flats . It is a hectic task to maintain all the records of the flat belonging to our Dhaka city. Here, to make this task a piece of cake we created this section. While adding a flat in the part of add flat the initial task that we do is giving a distinct code for each flat, there is a reason behind it for doing that .The reason is to maintain the data of all the flats .So when we want to an information about a specific flat on that time we can easily find that flat by searching with the given code of that flat.

**Edit Flat :** It is the section to edit the information of the flat which is already added in the add flat portion. After adding a flat we need to work a lot with the information of that flat . While dealing with a lot of tasks at a time we might make some mistakes while writing the information of a flat. When we get to know about the mistake that we made before ,we need to eradicate that thing. Here this section offers us to edit the further information of a specific flat.

**Delete Flat :** The work of this section is as easy as it sounds. When we add different flats in our software there can be some flats which are inviting to the customers . So these flats were abandoned . Regarding this problem we came up with this

section where we can delete a specific flat which is not inviting for the customers .

**Bookings:** This is the most efficient option of the admin panel. First of all , what does the word booking mean? When we add a specific flat in our software that flat is available for every single customer using our software . When our customer will go through the flats which are available in our software they might find a flat which is interesting . However he is not interested in getting that flat at that particular moment, as a result he might get disappointed by thinking that we will not get the flat when it will be needed for him. To alleviate this problem we added the feature of booking . So when a customer will book a flat, the flat will not be available in the display section, it will be removed from the display section automatically and the flat will be available in the booking section and the customer can get his suitable flat when it is needed. There is also an option that will ensure the customers that the flat is booked.

**Changing Password:** This section offers the admin to change password. If the admin feels that the password is not secure anymore , then he can come to this section to change his password. It is a convenient process , it contains only two steps . Firstly the admin has to enter the old password then he has to type the new password that he wants to give and the password will be changed within a moment.

**Go Back:** This option is to go back to the customer section and that was all about the admin panel.

## 4.3 User Section

**2. Customer panel :** This particular section can be accessed by everyone along with admin, customer and visitor. Therefore we did not create any security level in this section and anyone can visit without any security lock. For entering in this section no password is needed ,anybody can access this section without the password. The customer panel of our system contains a bunch of options to maintain and visit our whole system in a comfortable way. For example:

- Check Flat for Rent
- flat for Buy
- Bookings
- Go back

**Check Flat for Rent :** This option is one of the most essential features of the customer panel. As we are dealing with the flats in different cities, we have to work with plenty of flats. It is a hectic task to maintain all the records of the flat belonging to different cities. Here, to make this task a piece of cake we created this section. While adding a flat in the part of add flat the initial task that we do is giving a distinct code for each flat, there is a reason behind it for doing that. The reason is to maintain the data of all the flats. So when we want to an information about a specific flat on that time we can easily find that flat by searching with the given code of that flat for rent in this section.

**Check Flat for Buy:** Here, a customer can check whether flats in different areas are available to buy or not. This is also one of the most significant option of the customer panel. As we are dealing with the flats in different cities, we have to work with plenty of flats. It is a hectic task to maintain all the records of the flat belonging to different cities. Here, to make this task a piece of cake we created this section. While adding a flat in the part of add flat the initial task that we do is giving a distinct code for each flat, there is a reason behind it for doing that. The reason is to maintain the data of all the flats. So when we want to an information about a specific flat on that time we can easily find that flat by searching with the given code of that flat for buy in this section.

**Bookings :** This is the most crucial and efficient option of the customer panel. To begin with, what does the word booking mean? When we add a specific flat in our software that flat is available for every single customer using our software. When our customer will go through the flats which are available in our software they might find a flat which is interesting. However he is not interested in getting that flat at that particular moment, as a result he might get disappointed by thinking that we will not get the flat when it will be needed for him. To alleviate this problem we added the feature of booking. So when a customer will book a flat, the flat will not be available in the display section, it will be removed from the display section automatically and the flat will be available in the booking section and the customer can get his suitable flat when it is needed. There is also an option that will ensure the customers that the flat is booked. They can check which flat has been booked in a particular section on their own.

**Helpline:** If a visitor or customer faces any kind of problem in our system, they are welcome to use this section in order to take individual help from the admin panel. Moreover, if the customer gets into any trouble or if they have any kind of confusion in their mind, they can get related information and help from this option as well.

**Go back :**

This option is to go back to the customer section and that was all about the admin panel.

## 4.4 End of The Program

**Exit :** Compiler will run the program and after getting the relevant result the program should return the process. We used the CPP programming language and the code generally runs on the codeblocks(20.3). As soon as the system uses all the loops and algorithms and shows the output, eventually it ought to be returned to the process. Here we designed and worked on a huge number of positions and we made the return system manually. The exit option is appropriate for the program's return process

## 4.5 Conclusion

We designed our program in a way that everyone will find it very easy and comfortable to use. In order to make a user friendly program, we considered an easy hardware system to run the program. The basic hardware and software requirements will allow a maximum number of clients to use our program. All the major features have been illustrated and discussed in the above points. All in all, our main goal of this project is to build a program that is fulfilled with all necessary user and admin system methods and finally we reached our desired level and we are satisfied with our program.

# Chapter 5

## Experimental Results and Evaluation

### 5.1 Introduction

Here in the result analysis section we attach some Important screenshots of our project. We attach the screenshots of our code and also attached the inputs outputs screenshots beside of this, and then we analysis the result of our project.

### 5.2 Result Analysis

Login Interface

Admin (Admin Panel)

Customer (User Panel)

Exit (Return process)

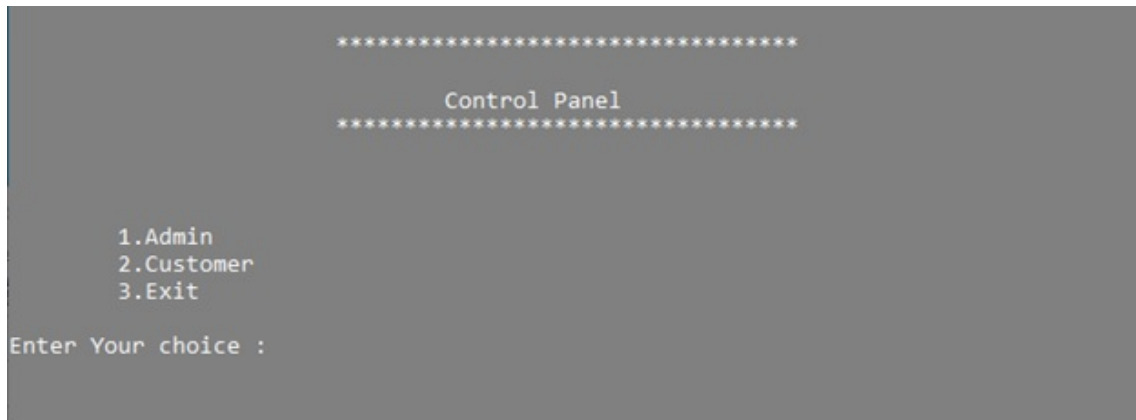


Figure 5.1: Main interface (Control Panel)

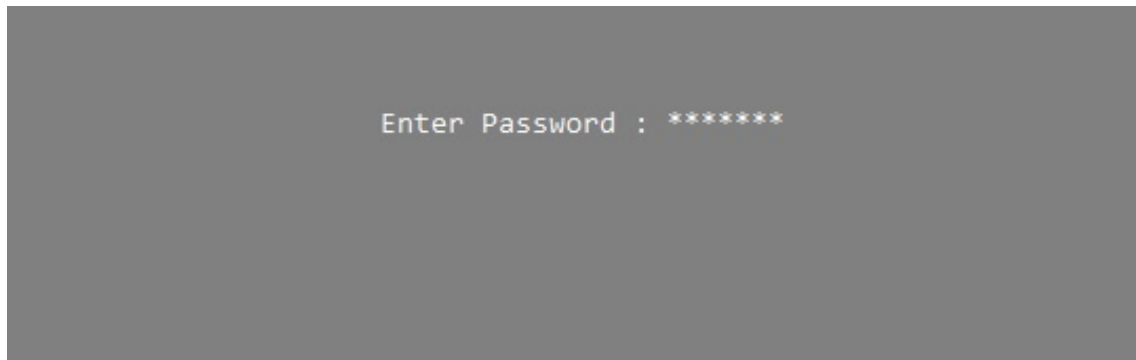


Figure 5.2: Security path for admin section

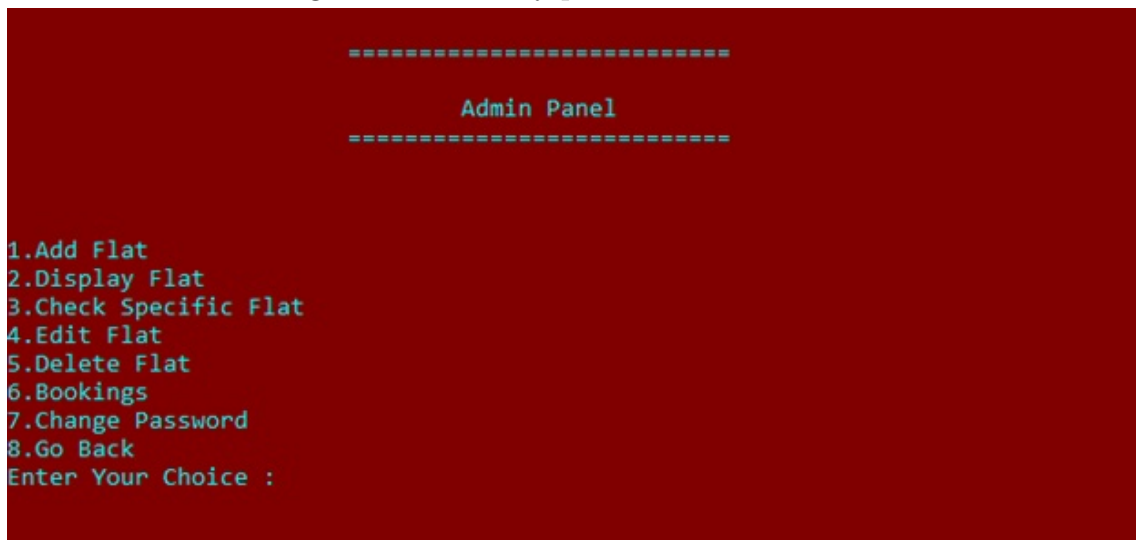


Figure 5.3: Use able options in Admin Panel (Input)

```

489 void flat::edit_sflat()
490 {
491     system("cls");
492     fstream file, filel;
493     int c=0, count=0;
494     string f_city, code, f_cityl, code1, details, adr, details1, adr1, f_area, range, f_areal, rangel;
495     cout<<"\n\n\t\t\t\t\tEdit Flat Record";
496     cout<<"\n\n\t\t\t\t\t-----";
497     filel.open("flatf.txt", ios::out|ios::app);
498     file.open("flatl.txt", ios::in);
499     if(!file)
500     {
501         cout<<"\n\nFile opening error...";
502     }
503     else
504     {
505         cout<<"\n\nFlat code : ";
506         cin>>code1;
507         //file>>code>>f_city>>adr>>f_area>>range>>details;
508         file>>code>>f_city>>f_area>>range>>adr>>details;
509         while(!file.eof())
510         {
511             if(code1==code)
512             {
513                 system("cls");

```

Figure 5.4: Existing flat editing method (Input)

```

                          All Booking Record
                          -----

1.Booking Record for Sale Flat
2.Booking Record for Rent Flat
3.Customer Booking Cancel List for Sale Flat
4.Customer Booking Cancel List for Rent Flat
5.Go Back
Enter your choice :

```

Figure 5.5: Booking interface and records (Admin Panel)

```

**The Password Should be less than 20 characters & don't use spaces**

Enter New Password : *****

Your Password has been changed Successfully.
Press any key to continue.....

```

Figure 5.6: Password changing method (Admin Panel)

```

                                Customer Panel

1.Check Flat for Rent
2.Check flat for Buy
3.Bookings
4.Help Line
5.Go Back
Enter Your Choice :
```

Figure 5.7: Main interface and all use able options in Customer Panel)

```

                                Booking Panel

1.Book flat for rent
2.Book flat for buy
3.Check booking status for rent
4.Check booking status for buy
5.Edit Customer Booking Information For Rent
6.Edit Customer Booking Information For Buy
7.Cancel booking for rent
8.cancel booking for buy
9.Go back:
Enter Your Choice :
```

Figure 5.8: Booking features in Customer Panel)

```

City : Dhaka

Flat code      : 101
City           : Dhaka
Area(In sq.feet) : 1250
Range          : 3500000
Address        : 66/1,ECB,Dhaka-1216
Details        : Bedroom-3/Washroom-2/Kitchen-1
-----

Flat code      : 104
City           : Dhaka
Area(In sq.feet) : 950
Range          : 2500000
Address        : 44/A,Bonani,Dhaka
Details        : Bedroom-2/Washroom-1/Drawing/Dining/Kitchen-1
-----

Flat code      : 105
City           : Dhaka
Area(In sq.feet) : 1200
Range          : 3500000
Address        : 9/B,FullarRoad,Dhaka-1213
Details        : Bedroom-3/Washroom-2/Drawing-Dining/Kitchen-1
-----

                                Press Enter to Continue.....
```

Figure 5.9: Records of all available flats for sale in Dhaka city



```

1585         }
1586         file>>name1>>name2>>v_id>>occu>>phn>>code>>f_city>>f_area>>range>>adr>>details;
1587     }
1588     if(count==0)
1589     {
1590         cout<<"\n\nFlat not found....";
1591     }
1592 }
1593 file.close();
1594 file1.close();
1595 remove("bbuy.txt");
1596 rename("bbuy1.txt", "bbuy.txt");
1597 cout<<"\n\t\t\t\tPress Enter to Continue..... ";
1598 }
1599 void flat::cbookings()
1600 {
1601     p:
1602     int choice;
1603     system("cls");
1604     cout<<"\n\n\t\t\t\tBooking Panel";
1605     cout<<"\n1.Book flat for rent";
1606     cout<<"\n2.Book flat for buy";
1607     cout<<"\n3.Check booking status for rent";
1608     cout<<"\n4.Check booking status for buy";
1609     cout<<"\n5.Edit Customer Booking Information For Rent";

```

Figure 5.10: Booking method(Handling Files)

```

                                Flat for Rent
                                -----
City : Dhaka

Flat code      : 202
City           : Dhaka
Area(In sq.feet) : 1530
Range          : 24000/month
Address        : 27,Dhanmondi,Dhaka
Details        : Bedroom-4/Washroom-2/Drawing-Dining/Kitchen-1
-----

Flat code      : 203
City           : Dhaka
Area(In sq.feet) : 1300
Range          : 24000
Address        : Block-C,Basundhora-R/A
Details        : Bedroom-3/Washroom-2/Drawing-Dining/Kitchen-1
-----

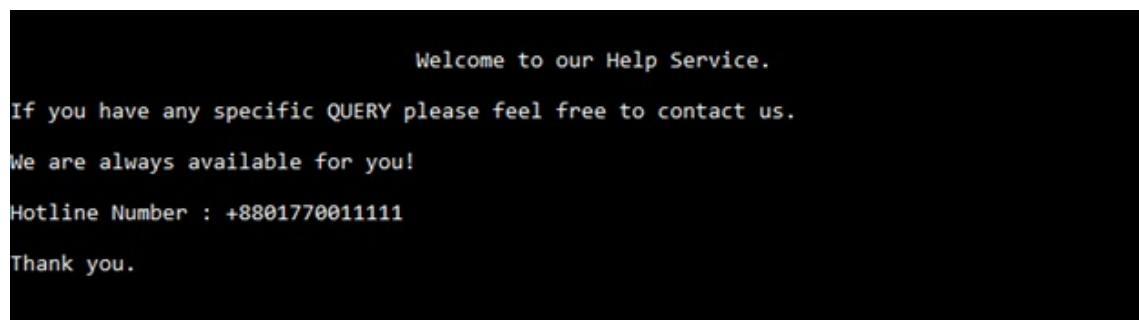
Flat code      : 204
City           : Dhaka
Area(In sq.feet) : 1335
Range          : 18000
Address        : 45/4/A,Basaboo,Dhaka-1214
Details        : Bedroom-4/Washroom-2/Drawing-Dining/Kitchen-1
-----

Flat code      : 205
City           : Dhaka
Area(In sq.feet) : 1600
Range          : 45000
Address        : 8/C,Gulshan-1,Dhaka
Details        : Bedroom-4/Washroom-2/Drawing-Dining/Kitchen-1
-----

                                Press Enter to Continue.....

```

Figure 5.11: Records of all available flats for rent in Dhaka city



Welcome to our Help Service.

If you have any specific QUERY please feel free to contact us.

We are always available for you!

Hotline Number : +8801770011111

Thank you.

Figure 5.12: Helpline for customers and visitors