

# REAL ESTATE



Aarchi Shah  
DAV PUBLIC SCHOOL, NERUL

# TABLE OF CONTENTS

S.NO	TOPIC	PAGE
2.	Acknowledgement	3
3.	Preface	4
4.	Objective of the project	5
5.	Hardware and Software Requirement	6
6.	Introduction to the Project	7
7.	Overview of Python 3.7.3	9
8.	Overview of MySql 5.1	12
9.	Modules Used	14
10.	Tables and Fields for Database	15
11.	Sample Data	17
12.	Source Code	21
13.	Output	51
14.	Future scope of Project	60
15.	Conclusion	61
16.	Bibliography	62

# **ACKNOWLEDGEMENT**

I would like to express our special thanks to Archana Naik Ma'am for her guidance and supervision.

I would also like to extend my gratitude to Shrinidhi Balaji for collaborating with me for this opportunity. I would like to thank everyone involved in the project directly or indirectly.

# **PREFACE**

With job opportunities opening up across the nation, employees are more than ready to shift to new locations without hesitation. This also give people the chance to explore different places in our diversified India. An online real estate portal is indeed a handy tool to help aspirants analyse different housing options at the click of the mouse.

Keeping this in mind, this programs help real estate agents reap these benefits: build awareness, generate quality leads, increase credibility along with brand, help buyers and sellers throughout their buying or selling journey, with full information control.

# **OBJECTIVE**

- **To develop:**

*Real estate managing system*

- **FRONT END :**

*Python 3.7.3*

- **BACK END :**

*MySQL Server 5.1*

- **Operating system:**

*MacOS – 12.0.1*

# **HARDWARE & SOFTWARE**

## **REQUIREMENTS**

- **Hardware Requirement**

3/4/Core 2 Duo/Dual core/i3/i5/i7 ;With at least  
256 MB RAM 2 MB free space on Hard Disk  
Color Monitor/LCD

- **Operating System & Compiler**

MacOs/MS Windows 7 or above  
Python with related libraries used for Data  
Analysis

- **Open Source Software Being Used :**

- 1.Python 3.7.3
- 2.MySQL Server 5.1

# INTRODUCTION

*Real estate is the land along with any permanent improvements attached to the land, whether natural or man-made—including water, trees, minerals, buildings, homes, fences, and bridges. Real estate is a form of real property.*

*In markets where land and building prices are rising, real estate is often purchased as an investment, whether or not the owner intends to use the property. It is common practice for an intermediary to provide real estate owners with dedicated sales and marketing support in exchange for commission.*

*Government of India along with the governments of respective States has taken several initiatives to encourage development in the sector. The Smart City Project, with a plan to build 100 smart cities, is a prime opportunity*

*for real estate companies. The Securities and Exchange Board of India (SEBI) has given its approval for the Real Estate Investment Trust (REIT) platform, which will allow all kind of investors to invest in the Indian real estate market. It would create an opportunity worth Rs. 1.25 trillion (US\$ 19.65 billion) in the Indian market in the coming years.*



# OVERVIEW OF PYTHON

*Python is a high-level, interpreted, interactive and object-oriented scripting language.*

*Python is designed to be highly readable.*

*It uses English keywords frequently and it has fewer syntactical constructions than other languages.*

- **Description** *Python was developed by Guido van Rossum in the late eighties and early nineties at the National Research Institute for Mathematics and Computer Science in the Netherlands.*
  - *Python is copyrighted. Like Perl, Python source code is now available under the GNU General Public License (GPL).*
- **Features**
  - Easy-to-learn – *Python has few keywords, simple structure, and a clearly defined syntax.*

*This allows the student to pick up the language quickly.*

- *Easy-to-read – Python code is more clearly defined and visible to the eyes.*
- *Easy-to-maintain – Python's source code is fairly easy-to-maintain. .A broad standard library – Python's bulk of the library is very portable and cross-platform compatible on UNIX, Windows, and Macintosh.*
- *Interactive Mode – Python has support for an interactive mode which allows interactive testing and debugging of snippets of code.*
- *Portable – Python can run on a wide variety of hardware platforms and has the same interface on all platforms.*
- *Extendable – You can add low-level modules to the Python interpreter. These modules enable programmers to add to or customize their tools to be more efficient.*
- *Databases – Python provides interfaces to all major commercial databases.*

- GUI Programming – Python supports GUI applications that can be created and ported to many system calls, libraries and windows systems, such as Windows MFC, Macintosh, and the X Window system of Unix.
- Scalable – Python provides a better structure and support for large programs than shell scripting.

# OVERVIEW OF MYSQL

- ◇ *A database system is basically a computer based record keeping system .The collection of data, usually referred to as the database, contains information about one particular enterprise. In a typical file-processing system, permanent records are stored in various file.*
- ◇ *A number of different application program are written to extract records from files and add records to the appropriate files.*

## • **Advantages**

- ◇ *Data base system reduce data redundancy (data duplication) to a large extent.*
- ◇ *Data base system control data inconsistency to a large extent.*
- ◇ *Database facilitate sharing of data.*
- ◇ *Database enforces standards.*

◇ *Centralized data bases can ensure data security. Integrity can be maintained through databases.*

My SQL is a freely available source Relational Database Management System (RDMS) that uses structured query language (SQL). It is downloadable from site [WWW.MYSQL.ORG](http://WWW.MYSQL.ORG). In a MYSQL database, information stored in tables. MYSQL provides you with a rich set of features that support a secure environment for storing, maintaining, accessing data. MYSQL is a fast, reliable, scalable alternative to many of the commercial RDBMSs available today.

MYSQL was created and is supported by MYSQL AB, a company based in Sweden ([ww.mysql.com](http://ww.mysql.com)). This company is now a subsidiary of sun micro systems, which holds the copyright to most of the code base. On APRIL 20, 2009 ORACLE CORP., which develops and sells the proprietary ORACLE DATABASE, announced a deal to acquire sun Microsystems.

# **MODULES USED:**

- 1.mysql.connector
- 2.tabulate

## ***mysql.connector***

MySQL Connector/Python enables Python programs to access MySQL databases, using an API that is compliant with the Python Database API Specification v2.0 (PEP 249). It is written in pure Python and does not have any dependencies except for the Python Standard Library.

To import:

```
import mysql.connector
```

## ***Tabulate-***

Tabulate is an open-source python package/module which is used to print tabular data in nicely formatted tables.

To import:

```
from tabulate import tabulate
```

# TABLES & FIELDS

## FOR DATABASE

```
[mysql> show tables;
+-----+
| Tables_in_est |
+-----+
| agent_id      |
| client_id     |
| rent          |
| sale          |
+-----+
4 rows in set (0.00 sec)
```

Divide by loc, budget, sq-feet, age, type  
Select (confirmation)/go back  
After selected agent ph no. id

```
[mysql> desc agent_id;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Comp | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| username | varchar(15) | YES | | | NULL | |
| code | char(10) | NO | PRI | NULL | |
| password | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

AGENT

```
[mysql> desc client_id;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| username | varchar(15) | YES | | NULL | |
| phone | char(10) | NO | PRI | NULL | |
| password | char(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> desc rent;
```

Field	Type	Null	Key	Default	Extra
location	varchar(25)	YES		NULL	
rent_pm	int	YES		NULL	
area_sqfeet	int	YES		NULL	
age_year	int	YES		NULL	
amenities	varchar(70)	YES		NULL	
address	varchar(70)	YES		NULL	
agent_no	char(10)	YES		NULL	
agent_name	char(15)	YES		NULL	
availability	enum('YES','NO')	YES		NULL	
type	varchar(15)	YES		NULL	
furnished	enum('YES','NO')	YES		NULL	
name	char(15)	NO	PRI	NULL	
agent_id	varchar(30)	YES		NULL	

13 rows in set (0.01 sec)

```
mysql> desc sale;
```

Field	Type	Null	Key	Default	Extra
location	varchar(25)	YES		NULL	
cost	int	YES		NULL	
area_sqfeet	int	YES		NULL	
age_year	int	YES		NULL	
amenities	varchar(70)	YES		NULL	
address	varchar(70)	YES		NULL	
agent_no	char(10)	YES		NULL	
agent_name	char(15)	YES		NULL	
availability	enum('YES','NO')	YES		NULL	
type	varchar(15)	YES		NULL	
furnished	enum('YES','NO')	YES		NULL	
name	char(15)	YES		NULL	
agent_id	varchar(30)	YES		NULL	

13 rows in set (0.00 sec)



# SAMPLE DATA

## *CLIENT ID AND AGENT ID*

```
mysql> select * from client_id;
```

username	phone	password
Ram	8067295863	ram@1204
Aayush	8207561371	aa#1234
Mitali	8234754371	mit#7764
Afrin	8875322834	afrin\$1
Ritika	8898355353	riri#22
Sara	9908577896	sara&55
Aryan	9944523416	aryan#12

```
7 rows in set (0.00 sec)
```

```
mysql> select * from agent_id;
```

username	code	password
Yashil	6127952383	yas\$1234
Saket	7509733471	saket@96
Tirthesh	7887420006	tt@994
Jyoti	8847843323	jyoti@12#
Anuja	987884456	anuja@123
Shriram	9920221493	shri122

```
6 rows in set (0.00 sec)
```

## RENT :-

```
mysql> select * from rent;
```

location	rent_pm	area_sqfeet	age_year	amenities
Delhi	80000	2500	6	Lawn, car park, terrace
Mumbai	25000	1150	3	Car park,gym
Hyderabad	23500	1003	2	hall,lift
Bangalore	54000	1232	4	Play Area,Gym,Car Parking
Baroda	10000	687	10	Lift,car park
Mumbai	37000	670	1	Club House
Bangalore	55000	1225	5	park,lift,hall
Delhi	48000	1045	6	Car Parking,Club House
Hyderabad	29000	658	4	Basketball Court,gym
Mumbai	17000	994	4	car park
Kolkata	32000	1657	1	Car parking,Spa,Gym
Bangalore	55000	1770	12	car park, lift
Kolkata	55000	1100	3	Park,Auditorium
Delhi	44000	1250	3	play area,lift
Mumbai	40000	960	4	Swimming Pool,Golf Club
Delhi	35000	866	5	Car Parking

16 rows in set (0.00 sec)

address	agent_no	agent_name	availability
Akshar bungalow, no 22, sec 19, Ambedkar road near Krishna hotel	7887420006	Tirthesh	YES
Apsara Society, flat 305, sec.53,Nalasopora,near phoenix mall	6127952383	Yashil	YES
Chandragiri colony,flat 101,plot2,sec 9,Nampally near DPS school	8847843323	Jyoti	YES
348 dpg complex,Avenue Road Cross, Old Taragupet	6127952383	Yashil	YES
Dwarka Society, flat 702, sec.1-B,Bajva,near central bank	8847843323	Jyoti	YES
546 Ghorpade ,shivaji Road, Mumbai	8847843323	Jyoti	YES
Jayam society, flat 152, sec 2, Jayanagar near Sharda School	8847843323	Jyoti	YES
12 Madhuban Society,near HDFC bank,Jonapur, South Delhi	8847843323	Jyoti	YES
203 Msr,Balangan,Hyderabad	7887420006	Tirthesh	YES
Navyug CHS, flat 209, sec 12, Grant road near central mall	7887420006	Tirthesh	YES
30A Nazar , Ballygunj, Kolkata	7887420006	Tirthesh	YES
Phoenix towers, flat 1102, sec 56, Marathahalli near central park	6127952383	Yashil	NO
P39 Prince ,near princess hospital, kolkata	6127952383	Yashil	YES
Radha society, flat 201, sec 26-A, Shahadara near Patelji park	8847843323	Jyoti	YES
224 Siddharth, near Chirag park , Mumbai	6127952383	Yashil	YES
66 Subash , near damodar school, South Delhi	7887420006	Tirthesh	YES

type	furnished	name	agent_id
Bungalow	YES	Akshar 22	tir44@hotmail.com
2 BHK	YES	Apsara 305	yas@gmail.com
2 BHK	NO	Chandragiri 101	jyo12@gmail.com
3 BHK	YES	dpg 348	yas@gmail.com
2 BHK	NO	Dwarka 702	jyo12@gmail.com
2 BHK	NO	Ghorpade 546	jyo12@gmail.com
2 BHK	YES	Jayam 152	jyo12@gmail.com
2 BHK	YES	Madhuban 12	jyo12@gmail.com
1 BHK	YES	Msr 203	tir44@hotmail.com
1 BHK	YES	Navyug 209	tir44@hotmail.com
1 BHK	NO	Nazar 30A	tir44@hotmail.com
3 BHK	YES	Phoenix 1102	yas@gmail.com
3 BHK	YES	Prince P39	yas@gmail.com
2 BHK	NO	Radha 201	jyo12@gmail.com
2 BHK	NO	Siddharth 224	yas@gmail.com
1 BHK	NO	Subash 66	tir44@hotmail.com

**SALE :-**

location	cost	area_sqfeet	age_year	amenities
Chandigarh	2490000	1100	2	Swimming Pool,Golf Club
Kolkata	5968000	1312	1	24x7 Security,Club House
Mumbai	52000000	1657	1	Car parking,Spa,Gym
Delhi	115000000	1917	4	Primary School,Basketball Court,Movie Complex
Mumbai	9700000	575	3	Park,Auditorium
Delhi	35000000	3888	6	Car Parking,Club House
Jaipur	7000000	2000	4	Play Area,Gym,Car Parking
Chennai	2700000	866	5	Car Parking
Chennai	15000000	3549	2	Car Parking,Lawn
Chandigarh	4500000	2000	4	Play Area,Club House,Car Parking
Kolkata	2500000	923	5	Car Parking,Garden
Mumbai	9500000	600	1	Park,Auditorium
Delhi	10450000	1863	2	Swimming Pool,Tennis Court
Jaipur	12000000	1132	6	Swimming Pool,Tennis Court,Library

14 rows in set (0.00 sec)

1. Click on the Edit menu and then select the Preferences option as follows:

address	agent_no	agent_name	availability
302,Namonamah,Shiwalik Green near Bragnam School,Mohali,Chandigarh	6127952383	Yashil	NO
A1,101,Primarc CHS,near ENT Care Centre,Dum Dum,Kolkata	8847843323	Jyoti	YES
13A Magnus,Jagat Vidya Marg,Bandra East,Mumbai	7887420006	Tirthesh	YES
Sumaira, Greater Kailash 1,near Chirag Park,Delhi	7887420006	Tirthesh	YES
701 Cuper Residency ,Kohinoor City Rd near Kohinoor Hospital	6127952383	Yashil	YES
Undips 12 near HDFC bank, Jonapur, South delhi	8847843323	Jyoti	YES
13A Jasmine Villa near Rajiwada,Gandhi Path,Jaipur,Rajasthan	6127952383	Yashil	YES
1 Pran-Orchid,Oragadam, South Chennai	7887420006	Tirthesh	YES
Umeed 302 near Vedant School, Chennai	6127952383	Yashil	YES
B5 Jodha Villa near CCD,Brahmpuri, Chandigarh	8847843323	Jyoti	YES
Suryadeep 43, New Alipore, Karnataka	8847843323	Jyoti	YES
701 Alaska opp to PVR Cinemas,Mumbai	6127952383	Yashil	YES
Canope 1 near Pacific Mall,Tilak Nagar, New Delhi	7887420006	Tirthesh	YES
E122 Radha, near central park,Mansarovar,Jaipur	7887420006	Tirthesh	YES

type	furnished	name	agent_id
2 BHK	NO	Namonamah 302	yas@gmail.com
3 BHK	NO	Primarc 101	jyo12@gmail.com
4 BHK	NO	Magnus 13A	tir44@hotmail.com
Bungalow	YES	Sumaira	tir44@hotmail.com
1 BHK	YES	Cuper 701	yas@gmail.com
2 BHK	YES	Undips 12	jyo12@gmail.com
3 BHK	YES	Jasmine 13A	yas@gmail.com
2 BHK	NO	Pran 1	tir44@hotmail.com
2 BHK	YES	Umeed 302	yas@gmail.com
3 BHK	NO	Jodha B5	jyo12@gmail.com
2 BHK	NO	Suryadeep 43	jyo12@gmail.com
1 BHK	YES	Alaska 701	yas@gmail.com
Bungalow	YES	Canope 1	tir44@hotmail.com
2 BHK	YES	Radha E122	tir44@hotmail.com



# SOURCE CODE –

## ##modules

```
from tabulate import tabulate
import mysql.connector
```

## ##initializing connection

```
mydb=mysql.connector.connect(host='localhost',user
='root',password='jtw8stp1',autocommit='True')
myc=mydb.cursor()
myc.execute("Use est")
```

## #global variables

```
un,pno,pwd="",""
header=["LOCATION","RENT PER MONTH",
"AREA(SQ_FEET)","AGE(YEAR)","AMENITIES",
"ADDRESS","TYPE","FURNISHED","NAME"]
header_sale=["LOCATION","COST",
"AREA(SQ_FEET)","AGE(YEAR)","AMENITIES",
"ADDRESS","TYPE","FURNISHED","NAME"]
```

## #functions

```
def signup(n):
    print('\n\n===== SIGN UP
=====')
    un=input('\nEnter your name: ')
    pno=input('Enter your phone no: ')
    pwd=input('Enter your password: ')
    if n==1:
        myc.execute('insert into client_id
values(%s,%s,%s)',(un,pno,pwd))
    elif n==2:
        myc.execute('insert into agent_id
values(%s,%s,%s)',(un,pno,pwd))

    print('\n-----')
    print('SUCCESSFULLY REGISTERED')
    print("SUCCESSFULLY LOGGED IN")

def final_data(raw_data,data):
```

```
"converting a list of tuples(output from execute statement) into a single list"
```

```
for i in raw_data:  
    data.append(i[0])
```

```
def end():
```

```
    "to end the program at any given time"
```

```
    print('\n\n',"-"*22)
```

```
    print('\n                THANKYOU                ')
```

```
    print("\n","-"*22)
```

```
    exit()
```

```
def confirmation(output,mode='r'):
```

```
    "confirmation of property + agent details +  
    further communication"
```

```
    n=1
```

```
    for i in output:
```

```
        print(n,". ",i[5])
```

```
        n+=1
```

```
    fin=int(input("\nENTER CHOICE\n--> "))
```

```
    confirmed=output[fin-1]
```

```

    print("\n\n----- PROPERTY CONFIRMED
-----")

print("\n",tabulate([confirmed],headers=header,table
fmt="pretty"),"\n")
    if mode=='r':
        st="select agent_no,agent_name,agent_id from
rent where name='%s'"%confirmed[-1]
    else:
        st="select agent_no,agent_name,agent_id from
sale where name='%s'"%confirmed[-1]

    myc.execute(st)
    agent_details=myc.fetchall()
    print("\nAGENT PH.NUMBER: %s\nAGENT
NAME: %s\nAGENT EMAIL:
%s"%(agent_details[0][:]))
    print("\n\n","-."*22)
    call=int(input("\nWOULD YOU LIKE A CALL
FROM YOUR AGENT?\n\nENTER 1 FOR YES
AND 0 FOR NO\n--> "))

```



```

if call==1:
    print("\n\n-- YOUR
AGENT",agent_details[0][1].upper(),"SHALL
CALL YOU BETWEEN 2PM AND 3PM
TOMORROW --")
    end()

def search(statement,para,mode='r'):
    "parametric search for property for both rent and
sale"
    para_new=()
    if in_loc!='-':
        statement+="""location='%s' and """
        para_new=para_new+(para[0],)

    if in_budget_min!='-':
        if mode!='r':
            statement+="""cost>= '%s' and """
        else:
            statement+="""rent_pm>= '%s' and """
        para_new=para_new+(para[1],)

```

```

if in_budget_max!='-':
    if mode!='r':
        statement+="""cost<= '%s' and """
    else:
        statement+="""rent_pm<= '%s' and """

para_new=para_new+(para[2],)

if in_sqfeet_min!='-':
    statement+="""area_sqfeet>= '%s' and """
    para_new=para_new+(para[3],)

if in_sqfeet_max!='-':
    statement+="""area_sqfeet<= '%s' and """
    para_new=para_new+(para[4],)

if in_age!='-':
    statement+="""age_year<= '%s' and """
    para_new=para_new+(para[5],)

```

```

if in_type!='-':
    statement+="""type= '%s' and """
    para_new=para_new+(para[6],)

if statement!=(("""select * from rent where"" or
""select * from sale where "")) :
    statement=statement[:-5]
    st=statement%(para_new)
    myc.execute(st)
else:
    statement=statement[:-7]
    myc.execute(statement)
output=myc.fetchall()
return output

```

```

def comparison(codes):
    """to compare two properties"""
    code_final=[]
    print("\n\n")
    n=1

```

```

for i in codes:
    print(n," - ",i[0])
    n+=1
num=eval(input("Enter number(s) to compare: "))
num=tuple(num)
for i in num:
    code_final.append(codes[i-1][0])

code_final=tuple(code_final)
return code_final

```

**##\_\_main**

```

print("-."*22)
print('                WELCOME                ')
print("-."*22)
x=int(input('\n\nPRESS\n1. FOR CLIENT \n2. FOR
AGENT\n3. TO EXIT\n-> '))
if x==3:
    end()

```

```

sign=False
while x not in (1,2,3):
    x=int(input("ENTER VALID INPUT -> "))
y=int(input('\n\nPRESS\n1. TO LOGIN \n2. TO
SIGN UP\n3. TO EXIT\n-> '))
trial=0
while y not in range(1,4):
    y=int(input("ENTER VALID INPUT -> "))
if y==3:
    end()
if y==1 and sign==False:
    print('\n===== LOG IN
=====')
    while trial<=2:
        un=input('\nEnter your name: ')
        pno=input('Enter your phone no: (+91)')
        pwd=input('Enter your password: ')
        if x==1:

```

```
myc.execute("select * from client_id where  
username=%s and password=%s and phone=%s  
",(un,pwd,pno))
```

```
else:
```

```
myc.execute("select * from agent_id where  
username=%s and password=%s and  
code=%s",(un,pwd,pno))
```

```
rec=myc.fetchall()
```

```
if len(rec)==1:
```

```
    print("\n","-."*22)
```

```
    print("SUCCESSFULLY LOGGED IN")
```

```
    sign=True
```

```
    break
```

```
else:
```

```
    print("\n\nWRONG  
USERNAME/PASSWORD")
```

```
    trial+=1
```

```
if y==2 and sign==False:
```

```
signup(x)
sign=True
```

```
if sign==False:
    signup(x)
    sign=True
print("END")
```

```
rs=int(input('\n\nPRESS\n1. FOR RENT \n2. FOR
SALE\n3. TO EXIT\n--> '))
if rs==3:
    end()
if x==1: ##client
    if rs==1: ##rent
        header=["LOCATION","RENT PER MONTH",
"AREA(SQ_FEET)","AGE(YEAR)","AMENITIES
", "ADDRESS","TYPE","FURNISHED","NAME"]
        while True:
```

```
    op=int(input("\n\nPRESS\n1. TO SEARCH
FOR PROPERTY FOR RENT\n2. FOR
COMPARISON OF PROPERTY FOR RENT\n3.
TO EXIT\n--> "))
```

```
    while op not in (1,2,3):
        op=int(input("ENTER VALID INPUT ->
"))
```

```
    if op==3:
```

```
        end()
```

```
    if op==1:
```

```
        print('\n\n',"-"*22)
```

```
        print('***** SEARCH FILTER
*****')
```

```
        print("-"*22,'\n\n')
```

```
        ##display to choose from
```

```
        loc,typ=[],[]
```

```
        myc.execute('select distinct location from
rent')
```

```
        loc_raw=myc.fetchall()
```

```
        myc.execute("select distinct type from
rent")
```

```
        typ_raw=myc.fetchall()
```



```
final_data(loc_raw,loc)
```

```
final_data(typ_raw,typ)
```

```
final_output=[]
```

```
##input
```

```
n=1
```

```
for i in loc:
```

```
    print(n," - ", i)
```

```
    n+=1
```

```
    in_loc=input("\nCHOOSE A LOCATION  
OR ENTER '-' TO OMIT\n--> ")
```

```
    if in_loc!='-':
```

```
        in_loc=loc[int(in_loc)-1]
```

```
        in_budget_min=input("ENTER  
MINIMUM MONTHLY BUDGET OR ENTER '-'  
TO OMIT\n--> ")
```

```
        in_budget_max=input("ENTER  
MAXIMUM MONTHLY BUDGET OR ENTER '-'  
TO OMIT\n--> ")
```

```
        in_sqfeet_min=input("ENTER MINIMUM  
SQFEET OR ENTER '-' TO OMIT\n--> ")
```

```

        in_sqfeet_max=input("ENTER
MAXIMUM SQFEET OR ENTER '-' TO
OMIT\n--> ")
        in_age=input("ENTER MAXIMUM AGE
OF PROPERTY OR ENTER '-' TO OMIT\n--> ")
        n=1
        for i in typ:
            print(n," - ", i)
            n+=1
        in_type=input("\nENTER TYPE OF
PROPERTY OR ENTER '-' TO OMIT\n--> ")
        if in_type!='-':
            in_type=typ[int(in_type)-1]
        if in_budget_max<in_budget_min or
in_sqfeet_max<in_sqfeet_min:
            print("\n\n","-."*22)
            print(" MAXIMUM VALUE ENTERED
LESS THAN MINIMUM VALUE ")

```

```

para=[in_loc,in_budget_min,in_budget_max,in_sqfe
et_min,in_sqfeet_max,in_age,in_type]
statement="""select * from rent where """
output=search(statement,para)
if output==[]:
    print("\n\n","-."*22)
    print("\nNO SUCH PROPERTY
AVAILABLE!")
    print("\n","-."*22)
else:
    for i in output:
        prop=[]

prop.extend([i[0],i[1],i[2],i[3],i[4],i[5],i[9],i[10],i[11
]])

        final_output.append(prop)
        print("\n\n",tabulate(final_output,
headers=header,tablefmt="pretty"))

```

**##CONFIRMATION**

```
con=int(input("\n\nDO YOU WISH TO  
CONFIRM A PROPERTY?\nPRESS 1 FOR YES  
OR 0 FOR NO\n--> "))
```

```
if con==1:  
    confirmation(final_output)
```

```
if op==2: ##comparison  
    myc.execute("select name from rent")  
    codes=myc.fetchall()  
    code_final=comparison(codes)  
    st="select * from rent where name in  
%s"%(code_final,)   
    myc.execute(st)  
    output=myc.fetchall()  
    output_final=[]  
    for i in output:  
        prop=[]  
  
prop.extend([i[0],i[1],i[2],i[3],i[4],i[5],i[9],i[10],i[11]  
])
```

```

        output_final.append(prop)
        print("\n",tabulate(output_final,
headers=header,tablefmt="pretty"))
        ##CONFIRMATION
        con=int(input("\n\nDO YOU WISH TO
CONFIRM A PROPERTY?\nPRESS 1 FOR YES
OR 0 FOR NO\n--> "))
        if con==1:
            confirmation_rent(output_final)

    if rs==2: ##sale
        header=["LOCATION","COST",
"AREA(SQ_FEET)","AGE(YEAR)","AMENITIES
", "ADDRESS","TYPE","FURNISHED","NAME"]
        while True:
            op=int(input("\n\nPRESS\n1. TO SEARCH
FOR PROPERTY FOR SALE\n2. FOR
COMPARISON OF PROPERTY FOR SALE\n3.
TO EXIT\n--> "))
            while op not in (1,2,3):
                op=int(input("ENTER VALID INPUT ->
"))

```

```

    if op==3:
        end()
    if op==1:
        print('\n\n',"-"*22)
        print('\n          SEARCH FILTER
)

        print("\n","-"*22,'\n\n')
        ##display to choose from
        loc,typ=[],[]
        myc.execute('select distinct location from
sale')

        loc_raw=myc.fetchall()
        myc.execute("select distinct type from
sale")

        typ_raw=myc.fetchall()
        final_data(loc_raw,loc)
        final_data(typ_raw,typ)
        final_output=[]

        ##input
        n=1

```

```

    for i in loc:
        print(n," - ", i)
        n+=1
    in_loc=input("\nCHOOSE A LOCATION
OR ENTER '-' TO OMIT\n--> ")
    if in_loc!='-':
        in_loc=loc[int(in_loc)-1]
    in_budget_min=input("ENTER
MINIMUM BUDGET OR ENTER '-' TO
OMIT\n--> ")
    in_budget_max=input("ENTER
MAXIMUM BUDGET OR ENTER '-' TO
OMIT\n--> ")
    in_sqfeet_min=input("ENTER MINIMUM
SQFEET OR ENTER '-' TO OMIT\n--> ")
    in_sqfeet_max=input("ENTER
MAXIMUM SQFEET OR ENTER '-' TO
OMIT\n--> ")
    in_age=input("ENTER MAXIMUM AGE
OF PROPERTY OR ENTER '-' TO OMIT\n--> ")
    n=1
    for i in typ:

```

```

        print(n," - ", i)
        n+=1
        in_type=input("\nENTER TYPE OF
PROPERTY OR ENTER '-' TO OMIT\n--> ")
        if in_type!='-':
            in_type=typ[int(in_type)-1]
            if in_budget_max<in_budget_min or
in_sqfeet_max<in_sqfeet_min:
                print("\n\n","-."*22)
                print(" MAXIMUM VALUE ENTERED
LESS THAN MINIMUM VALUE ")

```

```

para=[in_loc,in_budget_min,in_budget_max,in_sqfe
et_min,in_sqfeet_max,in_age,in_type]
statement=""select * from sale where ""
output=search(statement,para,mode='s')
if output==[]:
    print("\n\n","-."*22)
    print("\n    NO SUCH PROPERTY
AVAILABLE!  ")

```



```

        print("\n-","-."*22)
    else:
        for i in output:
            prop=[]

prop.extend([i[0],i[1],i[2],i[3],i[4],i[5],i[9],i[10],i[11]
])

        final_output.append(prop)
        print("\n\n",tabulate(final_output,
headers=header_sale,tablefmt="pretty"))

```

## ##CONFIRMATION

```

con=int(input("\n\nDO YOU WISH TO
CONFIRM A PROPERTY?\nPRESS 1 FOR YES
OR 0 FOR NO\n--> "))

```

```

    if con==1:
        confirmation(final_output,mode='s')

    if op==2:
        myc.execute("select name from sale")

```

```

        codes=myc.fetchall()
        code_final=comparison(codes)
        st="select * from sale where name in
%s"%(code_final,)
        myc.execute(st)
        output=myc.fetchall()
        output_final=[]
        for i in output:
            prop=[]

prop.extend([i[0],i[1],i[2],i[3],i[4],i[5],i[9],i[10],i[11
]])

            output_final.append(prop)
            print("\n",tabulate(output_final,
headers=header_sale,tablefmt="pretty"))
            con=int(input("\n\nDO YOU WISH TO
CONFIRM A PROPERTY?\nPRESS 1 FOR YES
OR 0 FOR NO\n--> "))
            if con==1:
                confirmation(output_final,mode='s')

```

```

if x==2:

```

```

    header_rent=["LOCATION","RENT PER
MONTH",
"AREA(SQ_FEET)","AGE(YEAR)","AMENITIES
", "ADDRESS","TYPE","FURNISHED","NAME"]
    header_sale=["LOCATION","COST",
"AREA(SQ_FEET)","AGE(YEAR)","AMENITIES
", "ADDRESS","TYPE","FURNISHED","NAME"]
    while True:

```

```

        op=int(input("\n\nPRESS\n1. TO VIEW YOUR
PROPERTIES\n2. TO ADD A PROPERTY\n3. TO
ALTER A PROPERTY\n4. TO DELETE A
PROPERTY\n5. TO EXIT\n--> "))

```

```

        while op not in range(1,6):
            op=int(input("ENTER VALID INPUT -> "))
        if op==5:

```

```

            end()
        if op==1:
            if rs==1: ##rent
                st="select * from rent where
agent_no=%s"%pno

```

```

else:
    st="select * from sale where
agent_no=%s"%pno

myc.execute(st)
output=myc.fetchall()
output_final=[]
if output==[]:
    print("\n\n","-."*22)
    print("\n    YOU HAVE NO LISTED
PROPERTIES!    ")
    print("\n","-."*22)
else:
    for i in output:
        prop=[]

prop.extend([i[0],i[1],i[2],i[3],i[4],i[5],i[9],i[10],i[11
]])

        output_final.append(prop)
    if rs==1:

```

```

        print("\n\n",tabulate(output_final,
headers=header_rent,tablefmt="pretty"))
    else:
        print("\n\n",tabulate(output_final,
headers=header_sale,tablefmt="pretty"))

    if op==2:
        print("\n\nENTER PROPERTY DETAILS
FOR NEW PROPERTY --> \n\n")
        location=input("ENTER STATE --> ")
        if rs==1:
            rent=input("ENTER RENT PER MONTH
--> ")
        else:
            rent=input("ENTER COST --> ")

        area=input("ENTER AREA IN SQ.FEET -->
")
        age=input("ENTER AGE IN YEARS --> ")
        amenities=input("ENTER AMENITIES --> ")
        address=input("ENTER ADDRESS --> ")

```

```

        availability=(input("ENTER AVAILABILITY
(YES/NO) --> ")).upper()
        typ=input("ENTER TYPE (1BHK,2BHK,
ETC) --> ")
        furnished=(input("FURNISHED (YES/NO)
--> ")).upper()
        name=input("ENTER NAME OF THE
HOUSE (EG. ABC 101) --> ")
        mail=input("ENTER EMAIL ID --> ")
        if rs==1:
            st="insert into rent
values('%s','%s','%s','%s','%s','%s','%s','%s','%s','%s',
'%s','%s','%s')"%(location,rent,area,age,amenities,ad
dress,pno,un,availability,typ,furnished,name,mail)
        else:
            st="insert into sale
values('%s','%s','%s','%s','%s','%s','%s','%s','%s','%s',
'%s','%s','%s')"%(location,rent,area,age,amenities,ad
dress,pno,un,availability,typ,furnished,name,mail)

        myc.execute(st)

```

```

        print("\n\n", "-."*22)
        print("\nSUCCESSFULLY ADDED
PROPERTY")
        print("\n", "-."*22)

    if op==3:
        if rs==1:
            st="select name from rent where
agent_no=%s"%pno
        else:
            st="select name from sale where
agent_no=%s"%pno
        myc.execute(st)
        output=myc.fetchall()
        if output==[]:
            print("\n\n", "-."*22)
            print("\n    YOU HAVE NO LISTED
PROPERTIES!    ")
            print("\n", "-."*22)
        else:

```

```

print()
n=1
for i in output:
    print(n," - ",i[0])
    n+=1
ch=int(input("\nENTER CHOICE
PROPERTY TO ALTER --> \n"))
prop=output[ch-1]
while True:
    n=1
    if rs==1:
        for i in header_rent:
            print(n, ' - ',i)
            n+=1
    else:
        for i in header_sale:
            print(n, ' - ',i)
            n+=1

```

```

table_header_rent=["LOCATION","RENT_PM",

```



```
"AREA_SQFEET","AGE_YEAR","AMENITIES",  
"ADDRESS","TYPE","FURNISHED","NAME"]
```

```
table_header_sale=["LOCATION","COST",  
"AREA_SQFEET","AGE_YEAR","AMENITIES",  
"ADDRESS","TYPE","FURNISHED","NAME"]
```

```
opt=int(input("\n\nENTER CATEGORY  
TO ALTER --> "))
```

```
change=input("\n\nENTER  
ALTERATION --> ")
```

```
if rs==1:
```

```
    opt_final=table_header_rent[opt-1]  
    st="update rent set %s='%s' where  
name='%s'"%(opt_final,change,prop[0])
```

```
else:
```

```
    opt_final=table_header_sale[opt-1]  
    st="update sale set %s='%s' where  
name='%s'"%(opt_final,change,prop[0])
```

```
myc.execute(st)
```

```
print("\n\n", "-."*22)
```

```
print("\n  PROPERTY  
SUCCESSFULLY UPDATED!  ")  
print("\n","-."*22)
```

```
print("\n\nUPDATED PROPERTY  
DETAILS: ")
```

```
if rs==1:  
    st="select * from rent where  
name='%s'"%(prop)  
else:  
    st="select * from sale where  
name='%s'"%(prop)  
myc.execute(st)  
output=myc.fetchall()  
output_final=[]
```

```
output_final.extend([[output[0][0],output[0][1],output[0][2],output[0][3],output[0][4],output[0][5],output[0][6],output[0][7],output[0][8],output[0][9],output[0][10],output[0][11]]])
```

```
if rs==1:  
    print("\n\n",tabulate(output_final,  
headers=header_rent,tablefmt="pretty"))
```

```

        else:
            print("\n\n",tabulate(output_final,
headers=header_sale,tablefmt="pretty"))

            further=int(input("\n\nPRESS \n1. TO
UPDATE THIS PROPERTY FURTHER \n2. TO
EXIT\n --> "))
            if further==2:
                break

    if op==4:
        if rs==1:
            st="select name from rent where
agent_no=%s"%pno
        else:
            st="select name from sale where
agent_no=%s"%pno
        myc.execute(st)
        output=myc.fetchall()
        if output==[]:

```

```

        print("\n\n","-."*22)
        print("\n  YOU HAVE NO LISTED
PROPERTIES!  ")
        print("\n","-."*22)
    else:

        n=1
        for i in output:
            print(n," - ",i[0])
            n+=1
        ch=int(input("\n\nENTER CHOICE
PROPERTY TO DELETE --> "))
        delete=output[ch-1]
        if rs==1:
            st="delete from rent where
name='%s'%delete
        else:
            st="delete from sale where
name='%s'%delete

        myc.execute(st)

```

```
print("\n\n","-."*22)
print("\n  PROPERTY SUCCESSFULLY
DELETED!  ")
print("\n","-."*22)
```

## OUTPUT –

# 1

```
.....
                        WELCOME
.....

PRESS
1. FOR CLIENT
2. FOR AGENT
3. TO EXIT
-> 1

PRESS
1. TO LOGIN
2. TO SIGN UP
3. TO EXIT
-> 1

===== LOG IN =====

Enter your name: Ram
Enter your phone no: (+91)8067295863
Enter your password: ram@1204

.....
SUCCESSFULLY LOGGED IN
END

PRESS
1. FOR RENT
2. FOR SALE
```

LOCATION	RENT PER MONTH	AREA(SQ_FOOT)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Delhi	48000	1845	6	Car Parking,Club House	12 Madhuban Society,near HDFC bank,Jonapur, South Delhi	2 BHK	YES	Madhuban 12
Delhi	44000	1250	3	play area,lift	Radha society, flat 201, sec 26-A, Shahadara near Patelji park	2 BHK	NO	Radha 201

DO YOU WISH TO CONFIRM A PROPERTY?  
PRESS 1 FOR YES OR 0 FOR NO

--> 0

PRESS

1. TO SEARCH FOR PROPERTY FOR RENT
2. FOR COMPARISON OF PROPERTY FOR RENT
3. TO EXIT

--> 1

-----  
\*\*\*\*\* SEARCH FILTER \*\*\*\*\*  
-----

- 1 - Delhi
- 2 - Mumbai
- 3 - Hyderabad
- 4 - Bangalore
- 5 - Baroda
- 6 - Kolkata

CHOOSE A LOCATION OR ENTER '-' TO OMIT

--> 2

ENTER MINIMUM MONTHLY BUDGET OR ENTER '-' TO OMIT

--> 20000

ENTER MAXIMUM MONTHLY BUDGET OR ENTER '-' TO OMIT

--> 40000

ENTER MINIMUM SQFEET OR ENTER '-' TO OMIT

--> -

ENTER MAXIMUM SQFEET OR ENTER '-' TO OMIT

--> -

ENTER MAXIMUM AGE OF PROPERTY OR ENTER '-' TO OMIT

--> -

- 1 - Bungalow
- 2 - 2 BHK
- 3 - 3 BHK
- 4 - 1 BHK

ENTER TYPE OF PROPERTY OR ENTER '-' TO OMIT

--> -

LOCATION	RENT PER MONTH	AREA(SQ_FOOT)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Mumbai	25000	1150	3	Car park,gym	Apsara Society, flat 305, sec.53,Nalasopora,near phoenix mall	2 BHK	YES	Apsara 305
Mumbai	37000	670	1	Club House	546 Ghorpade ,shivaji Road, Mumbai	2 BHK	NO	Ghorpade 546
Mumbai	40000	960	4	Swimming Pool,Golf Club	224 Siddharth, near Chirag park , Mumbai	2 BHK	NO	Siddharth 224

DO YOU WISH TO CONFIRM A PROPERTY?

PRESS 1 FOR YES OR 0 FOR NO

--> 1

- 1 . Apsara Society, flat 305, sec.53,Nalasopora,near phoenix mall
- 2 . 546 Ghorpade ,shivaji Road, Mumbai
- 3 . 224 Siddharth, near Chirag park , Mumbai

ENTER CHOICE

--> 1

----- PROPERTY CONFIRMED -----

LOCATION	RENT PER MONTH	AREA(SQ_FOOT)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Mumbai	25000	1150	3	Car park,gym	Apsara Society, flat 305, sec.53,Nalasopora,near phoenix mall	2 BHK	YES	Apsara 305

AGENT PH.NUMBER: 6127952383

AGENT NAME: Yashil

AGENT EMAIL: yas@gmail.com

-----  
WOULD YOU LIKE A CALL FROM YOUR AGENT?

ENTER 1 FOR YES AND 0 FOR NO

--> 1

-- YOUR AGENT YASHIL SHALL CALL YOU BETWEEN 2PM AND 3PM TOMORROW --

-----  
THANKYOU  
-----

```

=====
WELCOME
=====

PRESS
1. FOR CLIENT
2. FOR AGENT
3. TO EXIT
--> 1

PRESS
1. TO LOGIN
2. TO SIGN UP
3. TO EXIT
--> 2

===== SIGN UP =====
Enter your name: Martin
Enter your phone no: 6755845637
Enter your password: mar@123

=====
SUCCESSFULLY REGISTERED
SUCCESSFULLY LOGGED IN
END

PRESS
1. FOR RENT
2. FOR SALE
3. TO EXIT

PRESS
1. TO SEARCH FOR PROPERTY FOR RENT
2. FOR COMPARISON OF PROPERTY FOR RENT
3. TO EXIT
--> 2

1 - Akshar 22
2 - Apsara 385
3 - Chandragiri 181
4 - dpg 348
5 - Dwarka 782
6 - Ghorpade 646
7 - Jayam 152
8 - Madhuban 12
9 - Mr 283
10 - Navyug 289
11 - Nazar 38A
12 - Phoenix 1182
13 - Prince P39
14 - Radha 281
15 - Siddharth 224
16 - Subash 66
Enter number(s) to compare: 2,4,5

=====
| LOCATION | RENT PER MONTH | AREA(SQ. FEET) | AGE(YEAR) | AMENITIES | ADDRESS | TYPE | FURNISHED | NAME |
=====
| Mumbai | 25000 | 1150 | 3 | Car park,gym | Apsara Society, flat 385, sec.53,Nalasopora,near phoenix mall | 2 BHK | YES | Apsara 385 |
| Bangalore | 54000 | 1232 | 4 | Play Area,Gym,Car Parking | 348 dpg complex,Avenue Road Cross, Old Taragupet | 3 BHK | YES | dpg 348 |
| Baroda | 18000 | 687 | 10 | Lift,car park | Dwarka Society, flat 782, sec.1-8,Bajva,near central bank | 2 BHK | NO | Dwarka 782 |
=====

DO YOU WISH TO CONFIRM A PROPERTY?
PRESS 1 FOR YES OR 0 FOR NO
--> 0

PRESS
1. TO SEARCH FOR PROPERTY FOR RENT
2. FOR COMPARISON OF PROPERTY FOR RENT
3. TO EXIT
--> 3

=====
THANKYOU
=====
>>> |

```

t: 746 Col: 4

Python 3.8.5 Shell

WELCOME

PRESS

1. FOR CLIENT
2. FOR AGENT
3. TO EXIT

--&gt; 2

PRESS

1. TO LOGIN
2. TO SIGN UP
3. TO EXIT

--&gt; 1

LOG IN

Enter your name: Yashil

Enter your phone no: (+91)6127952383

Enter your password: yaa\$12

WRONG USERNAME/PASSWORD

Enter your name: Yashil

Enter your phone no: (+91)6127952383

Enter your password: yaa\$1234

SUCCESSFULLY LOGGED IN

END

PRESS

1. FOR RENT
2. FOR SALE
3. TO EXIT

--&gt; 1

PRESS

1. TO VIEW YOUR PROPERTIES
2. TO ADD A PROPERTY
3. TO ALTER A PROPERTY
4. TO DELETE A PROPERTY
5. TO EXIT

--&gt; 1

LOCATION	RENT PER MONTH	AREA(SQ. FEET)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Mumbai	25000	1150	3	Car park,gym	Apeara Society, flat 305, sec.53,Nalasopora,near phoenix mall	2 BHK	YES	Apeara 305
Bangalore	54000	1232	4	Play Area,Gym,Car Parking	348 dpy complex,Avenue Road Cross, Old Taragupet	3 BHK	YES	dpy 348
Bangalore	55000	1770	12	car park, lift	Phoenix towers, flat 1102, sec 54, Marathahalli near central park	3 BHK	YES	Phoenix 1102
Kolkata	55000	1100	3	Park,Auditorium	P39 Prince ,near princess hospital, Kolkata	3 BHK	YES	Prince P39
Mumbai	40000	960	4	Swimming Pool,Golf Club	224 Siddharth, near Chirag park , Mumbai	2 BHK	NO	Siddharth 224

PRESS

1. TO VIEW YOUR PROPERTIES
2. TO ADD A PROPERTY
3. TO ALTER A PROPERTY
4. TO DELETE A PROPERTY
5. TO EXIT

--&gt; 3



- 1 - Apsara 305
- 2 - dpg 348
- 3 - Phoenix 1102
- 4 - Prince P39
- 5 - Siddharth 224

ENTER CHOICE PROPERTY TO ALTER -->

- 2
- 1 - LOCATION
- 2 - RENT PER MONTH
- 3 - AREA(SQ FEET)
- 4 - AGE(YEAR)
- 5 - AMENITIES
- 6 - ADDRESS
- 7 - TYPE
- 8 - FURNISHED
- 9 - NAME

ENTER CATEGORY TO ALTER --> 4

ENTER ALTERATION --> 5

PROPERTY SUCCESSFULLY UPDATED!

UPDATED PROPERTY DETAILS:

LOCATION	RENT PER MONTH	AREA(SQ FEET)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Bangalore	54000	1232	5	Play Area,Gym,Car Parking	348 dpg complex,Avenue Road Cross, Old Taragupet	3 BHK	YES	dpg 348

PRESS  
1. TO UPDATE THIS PROPERTY FURTHER  
2. TO EXIT  
--> 2

PRESS  
1. TO VIEW YOUR PROPERTIES  
2. TO ADD A PROPERTY  
3. TO ALTER A PROPERTY  
4. TO DELETE A PROPERTY  
5. TO EXIT  
--> 5

THANKYOU

```

.....
WELCOME
.....

PRESS
1. FOR CLIENT
2. FOR AGENT
3. TO EXIT
--> 2

PRESS
1. TO LOGIN
2. TO SIGN UP
3. TO EXIT
--> 1

***** LOG IN *****

Enter your name: Jyoti
Enter your phone no: (+91)8847843323
Enter your password: jyoti@12#

.....
SUCCESSFULLY LOGGED IN
END

PRESS
1. FOR RENT
2. FOR SALE
3. TO EXIT
--> 2

PRESS
1. TO VIEW YOUR PROPERTIES
2. TO ADD A PROPERTY
3. TO ALTER A PROPERTY
4. TO DELETE A PROPERTY
5. TO EXIT
--> 1

```

Ln: 177 Col: 26

LOCATION	COST	AREA(SQ_FOOT)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Kolkata	5968000	1312	1	24x7 Security,Club House	Al,101,Primarc CHS,near ENT Care Centre,Dum Dum,Kolkata	3 BHK	NO	Primarc 101
Delhi	35000000	3888	6	Car Parking,Club House	Undips 12 near HDFC bank, Jonapur, South delhi	2 BHK	YES	Undips 12
Chandigarh	4500000	2000	4	Play Area,Club House,Car Parking	B5 Jodha Villa near CCD,Brahmpuri, Chandigarh	3 BHK	NO	Jodha B5
Kolkata	2500000	923	5	Car Parking,Garden	Suryadeep 43, New Alipore, Karnataka	2 BHK	NO	Suryadeep 43

```

PRESS
1. TO VIEW YOUR PROPERTIES
2. TO ADD A PROPERTY
3. TO ALTER A PROPERTY
4. TO DELETE A PROPERTY
5. TO EXIT
--> 2

```

ENTER PROPERTY DETAILS FOR NEW PROPERTY -->

```

ENTER STATE --> Kolkata
ENTER COST --> 12300000
ENTER AREA IN SQ.FEET --> 986
ENTER AGE IN YEARS --> 3
ENTER AMENITIES --> car park
ENTER ADDRESS --> 206 Saraswati,near APJ School,Kolkata
ENTER AVAILABILITY (YES/NO) --> Yes
ENTER TYPE (1BHK,2BHK, ETC) --> 2 BHK
FURNISHED (YES/NO) --> No
ENTER NAME OF THE HOUSE (EG. ABC 101) --> Saraswati 206
ENTER EMAIL ID --> jyoti2@gmail.com

```

SUCCESSFULLY ADDED PROPERTY

PRESS  
1. TO VIEW YOUR PROPERTIES  
2. TO ADD A PROPERTY  
3. TO ALTER A PROPERTY  
4. TO DELETE A PROPERTY  
5. TO EXIT  
--> 1

LOCATION	COST	AREA(SQ FEET)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Kolkata	5968000	1312	1	24x7 Security,Club House	Al,101,Primarc CHS,near ENT Care Centre,Dum Dum,Kolkata	3 BHK	NO	Primarc 101
Delhi	35000000	3888	6	Car Parking,Club House	Undips 12 near HDFC bank, Jonapur, South delhi	2 BHK	YES	Undips 12
Chandigarh	4500000	2000	4	Play Area,Club House,Car Parking	B5 Jodha Villa near CCD,Brahmpuri, Chandigarh	3 BHK	NO	Jodha B5
Kolkata	2500000	923	5	Car Parking,Garden	Suryadeep 43, New Alipore, Karnataka	2 BHK	NO	Suryadeep 43
Kolkata	12300000	986	3	car park	206 Saraswati,near APJ School,Kolkata	2 BHK	NO	Saraswati 206

PRESS  
1. TO VIEW YOUR PROPERTIES  
2. TO ADD A PROPERTY  
3. TO ALTER A PROPERTY  
4. TO DELETE A PROPERTY  
5. TO EXIT  
--> 4  
1 - Primarc 101  
2 - Undips 12  
3 - Jodha B5  
4 - Suryadeep 43  
5 - Saraswati 206

ENTER CHOICE PROPERTY TO DELETE --> 4

.....  
PROPERTY SUCCESSFULLY DELETED!  
.....

PRESS  
1. TO VIEW YOUR PROPERTIES  
2. TO ADD A PROPERTY  
3. TO ALTER A PROPERTY  
4. TO DELETE A PROPERTY  
5. TO EXIT  
--> 1

LOCATION	COST	AREA(SQ FEET)	AGE(YEAR)	AMENITIES	ADDRESS	TYPE	FURNISHED	NAME
Kolkata	5968000	1312	1	24x7 Security,Club House	Al,101,Primarc CHS,near ENT Care Centre,Dum Dum,Kolkata	3 BHK	NO	Primarc 101
Delhi	35000000	3888	6	Car Parking,Club House	Undips 12 near HDFC bank, Jonapur, South delhi	2 BHK	YES	Undips 12
Chandigarh	4500000	2000	4	Play Area,Club House,Car Parking	B5 Jodha Villa near CCD,Brahmpuri, Chandigarh	3 BHK	NO	Jodha B5
Kolkata	12300000	986	3	car park	206 Saraswati,near APJ School,Kolkata	2 BHK	NO	Saraswati 206

PRESS  
1. TO VIEW YOUR PROPERTIES  
2. TO ADD A PROPERTY  
3. TO ALTER A PROPERTY  
4. TO DELETE A PROPERTY  
5. TO EXIT  
--> 5

.....  
THANKYOU  
.....  
>>>

## **FUTURE SCOPE & LIMITATIONS**

The real estate sector is caught in the tweezer grip of delayed project deliveries, developers starved of funds, high unsold inventory and a growing proportion of stalled projects. Unproductive assets in the form of under-construction, stuck or delayed projects are estimated at 560,000 homes worth ₹4.5 trillion (\$65 billion) across the top seven Indian cities.

By 2040, real estate market will grow to Rs. 65,000 crore (US\$ 9.30 billion) from Rs. 12,000 crore (US\$ 1.72 billion) in 2019. Real estate sector in India is expected to reach a market size of US\$ 1 trillion by 2030 from US\$ 120 billion in 2017 and contribute 13% to the country's GDP by 2025. There is great opportunity to tap this opportunity and enhance digital systems to serve this sector.

# CONCLUSION

The agent can access the information and manage all by adding, updating & deleting the assets and some of its parameters.

It provides the valuable information of the desired property within a very short while. It is user-friendly and fast. It meets the requirement of different levels of user according to their requirements and access privileges. The reliability of the system has been measured to produce target system performance.

# **BIBLIOGRAPHY**

**Following documents & links have been read in completion of this project:**

- ***[https://en.wikipedia.org/wiki/Real\\_estate\\_business](https://en.wikipedia.org/wiki/Real_estate_business)***
- ***Union Budget 2021-22***
- ***NCERT Computer Science For Class 12***
- ***<https://bit.ly/2Y6UfbR>***
- ***Computer Science for Class 12 by Sumita Arora***
- ***<https://www.geeksforgeeks.org/>***

