

PM SHRI KENDRIYA
VIDYALAYA BERHAMPUR



SESSION 2024-25

A Project Report on
REAL ESTATE MANAGEMENT SYSTEM

For
CBSE 2025 Examination
[As a part of the Computer Science Course (083)]

SUBMITTED BY :

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Class :XIIA

Roll NO:

SUBMITTED TO:

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THIS IS TO CERTIFY THAT **SUJAL SEKHAR SASMAL** STUDYING IN CLASS **XII**
A, HAS SATISFACTORILY COMPLETED PROJECT WITH THE TITLE **REAL**
ESTATEMANAGEMENT SYSTEM UNDER THE GUIDANCE OF **Mr. SAROJ**
KANTAMISRA, PGT (COMPUTER SCIENCE) DURING THE ACADEMIC YEAR
2024-25 IN PARTIAL FULFILLMENT OF “**COMPUTER SCIENCE**” PRACTICAL
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PRINCIPAL

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Name: **Sujal Sekhar Sasmal**

Sign:

Class XII-A

CONTENTS

1. Introduction

2. System Implementation

2.1 The Hardware used:

2.2 The Software's used:

3. System Design & Development

3.1 Python Source Code

3.2 Database

3.3 Output Screen

4. References



INTRODUCTION

“Designing a Comprehensive Real Estate Property Management Platform”

Real estate management is a comprehensive field that focuses on the administration and oversight of various types of properties, including residential, commercial, and industrial real estate. This management discipline plays a pivotal role in maintaining and enhancing the value of property assets, ensuring that they are well-maintained, profitable, and aligned with the needs of both property owners and tenants. Effective real estate management encompasses a broad range of activities, including property maintenance, financial management, tenant relations, legal compliance, and strategic planning. Its goal is not only to ensure the physical upkeep of the properties but also to create an efficient operational framework that maximizes returns for property investors while meeting the demands of tenants and adhering to local regulations.

A key component of real estate management is **property maintenance**, which involves regular inspections, repairs, and upgrades to ensure the safety and functionality of a property. Well-maintained properties are more likely to retain their value, attract tenants, and minimize costly repairs. **Tenant management** also plays a critical role, as it involves creating and maintaining positive relationships with tenants, handling lease agreements, addressing complaints, and ensuring timely rent collection. By fostering strong tenant relationships, real estate managers can reduce turnover rates and enhance the long-term profitability of the property.

Another essential aspect of real estate management is **financial management**. This includes setting competitive rental prices, budgeting for ongoing expenses, and managing income and expenditures to ensure the property remains financially viable. Property managers must be skilled in financial

reporting, tax compliance, and ensuring that the property's revenue stream is maximized through efficient operational management. Legal compliance is equally important, as real estate managers must navigate complex local, state, and national regulations related to zoning laws, safety codes, lease terms, and tenant rights.

As the real estate industry evolves, the role of technology in property management has become increasingly important. From advanced property management software to digital marketing tools, technology helps streamline day-to-day operations, enhance communication with tenants, and improve decision-making through data analytics. Furthermore, real estate management now embraces sustainability initiatives, with a growing emphasis on eco-friendly building practices, energy-efficient systems, and waste reduction strategies, which not only benefit the environment but also reduce long-term operational costs.

Ultimately, the success of a real estate management project depends on the ability to balance the interests of property owners, tenants, and the surrounding community while achieving financial and operational objectives. Whether managing a single-family home or a large commercial complex, real estate managers must employ a combination of practical skills, legal knowledge, and strategic thinking to ensure the property's sustained success. This project will explore the key principles and practices that drive effective real estate management, highlighting how the integration of maintenance, financial planning, legal compliance, and technological innovations can contribute to the success of real estate operations.

HARDWARES SOFTWARES REQUIRED

Hardware used:

While developing the software, the used hardware's are: PC with Intel Core i3 processor having 4.00 GB RAM and other required devices.

Software used:

1. Microsoft Windows® 10 as Operating System.
2. Python IDLE as Front-end Development environment.
3. MySQL
4. Python Connector Module

PYTHON

SOURCE CODE


```
import mysql.connector

def orderprop():

    db = mysql.connector.connect(host="localhost", user="root", password="admin",
database="realestatemanagement")

    cur = db.cursor()

    try:

        ptype = input("Enter property type: ")
        pcat = input("Enter property category: ")


        query = "SELECT * FROM main_table WHERE PTYPE LIKE %s AND PCAT LIKE %s"
        cur.execute(query, ('%' + ptype + '%', '%' + pcat + '%'))
        data = cur.fetchall()


        if data:

            print("-----")
            print("Property found!")


            for property in data:

                print("Property ID:", property[0])
                print("Property Category:", property[1])
                print("Property Type:", property[2])
                print("Ownership:", property[3])
                print("Locality:", property[4])
                print("Area in sqft:", property[5])
                print("Price:", property[6])
                print("Ratings:", property[7])
                print("-----")
```

```
choice = input("Do you want to purchase ANY property? (yes/no): ")

if choice.lower() == 'yes':

    username = input("Enter your name: ")

    orderid = int(input("Enter order ID: "))

    propertyid = int(input("Enter property ID: "))

    pcat=input("Enter property category: ")

    ptype=input("Enter property type: ")

    price=int(input("Enter property price: "))

    s="insert into order_table values ('{}', {}, {}, '{}', '{}',  

    {})".format(username,orderid,propertyid,pcat,ptype,price)

    cur.execute(s)

    db.commit()

    print("===== Order placed successfully =====")

    print("Thank you for choosing us!")

    print("=====")

else:

    print("Thank you for visiting!")

    print("=====")

else:

    print("===== Invalid input: username and order ID are required =====")

except ValueError:

    print("===== Invalid input: username and order ID are required =====")

else:

    after_signin()

def viewpropertycategorydetails():

    print(">>>>>>>> PROPERTY CATEGORIES <<<<<<<<<")
```

```
db = mysql.connector.connect(host="localhost", user="root", password="admin",
database="realestatemanagement")
```

```
cur = db.cursor()
```

```
s = "SELECT DISTINCT PCAT FROM main_table"
```

```
cur.execute(s)
```

```
data = cur.fetchall()
```

```
print("===== Available Property Categories =====")
```

```
for i in data:
```

```
    print("*", i[0])
```

```
print("\n")
```

```
try:
```

```
    print("=====SELECT YOUR CHOICE FROM THE ABOVE=====")
```

```
    inpcat = input("Enter your desired property category:- ")
```

```
    k = "SELECT * FROM main_table WHERE PCAT='{ }'".format(inpcat)
```

```
    cur.execute(k)
```

```
    det = cur.fetchall()
```

```
    if det:
```

```
        print("===== PROPERTY DETAILS =====")
```

```
        for a in det:
```

```
            print("-----")
```

```
            print("Property ID:", a[0])
```

```
            print("Category:", a[1])
```

```
            print("Type:", a[2])
```

```
            print("Ownership:", a[3])
```

```
            print("Locality:", a[4])
```

```
            print("Area in sqft:", a[5])
```

```
print("Price:", a[6])
```

```
print("Ratings:", a[7])
```

```
print("-----")
```

```
print("\n")
```

```
else:
```

```
print(" ===== No properties found for the selected category =====")
```

```
after_signin()
```

```
except ValueError:
```

```
print("<<<<< INVALID INPUT >>>>>")
```

```
after_signin()
```

```
else:
```

```
after_signin()
```

```
db.commit()
```

```
def viewpropertycategory():#to show the property categories
```

```
db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagem  
ent")
```

```
cur=db.cursor()
```

```
s="select distinct PCAT from main_table"
```

```
cur.execute(s)
```

```
a=cur.fetchall()
```

```
print("===== PROPERTY CATEGORIES =====")
```

```
for i in a:
```

```
    print("*",i[0])
```

```
print("\n")
```

```
after_signin()
```

```
db.commit()
```

```
def deleteproperty():# to delete the details
```

```
db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagement")
```

```
cur=db.cursor()
```

```
print("<<<<<DELETING PROPERTY DETAILS FROM THE SOFTWARE>>>>>")
```

```
print("\n")
```

```
print("===== DO AT YOUR OWN RISK =====")
```

```
try:
```

```
pid=int(input("enter property id:- "))
```

```
xdel="delete from main_table where PID={}".format(pid)
```

```
cur.execute(xdel)
```

```
print("\n")
```

```
print("*****PROPERTY DETAILS DELETED SUCCESSFULLY*****")
```

```
print("\n")
```

```
db.commit()
```

```
except ValueError:
```

```
print(" ===== INVALID INPUT ===== ")
```

```
after_login()
```

```
except:
```

```
print(" ===== PROPERTY DOES NOT EXIST ===== ")
```

```
after_login()
```

```
else:
```

```
after_login()
```

```

def view_order_details():

    db = mysql.connector.connect(host="localhost", user="root", password="admin",
database="realestatemanagement")

    cur = db.cursor()

    try:

        query = "SELECT * FROM order_table"
        cur.execute(query)
        orders = cur.fetchall()

        if orders:

            print("===== ORDER DETAILS OF CUSTOMERS =====")

            for order in orders:

                print("-----")
                print("Username:", order[0])
                print("Order ID:", order[1])
                print("Property ID:", order[2])
                print("Property Category:", order[3])
                print("Property Type:", order[4])
                print("Price:", order[5])
                print("-----")
                print("\n")

            else:

                print("===== No orders found =====")
                print("\n")

        except:

            print(" ===== ERROR OCCURRED ===== ")
            after_login()

    else:

```

```
after_login()
```

```
def updateproperty():
```

```
    db = mysql.connector.connect(host="localhost", user="root", password="admin",  
database="realestatemanagement")
```

```
    cur = db.cursor()
```

```
    print("<<<<<< UPDATING PROPERTY DETAILS >>>>>>")
```

```
    try:
```

```
        property_id = int(input("Enter the Property ID to update: "))
```

```
        cur.execute("SELECT * FROM main_table WHERE PID = %s", (property_id,))
```

```
        property_details = cur.fetchone()
```

```
        if property_details:
```

```
            print("Current Property Details:")
```

```
            print("-----")
```

```
            print("Property ID:", property_details[0])
```

```
            print("Category:", property_details[1])
```

```
            print("Type:", property_details[2])
```

```
            print("Ownership:", property_details[3])
```

```
            print("Locality:", property_details[4])
```

```
            print("Area in sqft:", property_details[5])
```

```
            print("Price:", property_details[6])
```

```
            print("Ratings:", property_details[7])
```

```
            print("-----")
```

```
new_category = input("Enter new property category:- ")
new_type = input("Enter new property type:- ")
new_price = int(input("Enter new price:- "))
new_ownership = input("Enter new ownership status:- ")
```

```
update_query = """
UPDATE main_table
SET PCAT = %s, PTYPE = %s, PRICE = %s, OWNERSHIP = %s
WHERE PID = %s
"""
```

```
cur.execute(update_query, (new_category, new_type, new_price, new_ownership, property_id))
db.commit()
```

```
print("***** PROPERTY DETAILS UPDATED SUCCESSFULLY *****")
```

```
print("\nUpdated Property Details:")
```

```
print("-----")
```

```
print("Property ID:", property_id)
```

```
print("Category:", new_category)
```

```
print("Type:", new_type)
```

```
print("Ownership:", new_ownership)
```

```
print("Price:", new_price)
```

```
print("-----")
```

```
else:
```

```
print("===== PROPERTY NOT FOUND =====")
```

```
except ValueError:
```

```
print("===== INVALID INPUT: Please enter a valid Property ID =====")
```

```
updateproperty()
```


else:

db.commit()

after_login()

def viewpropertytype():#to show the types of property

db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagement")

cur=db.cursor()

a="select distinct PTYPE from main_table"

cur.execute(a)

qnot=cur.fetchall()

print("="*5,"PROPERTY TYPES", "="*5)

for i in qnot:

print("*",i[0])

print("\n")

print("<<<<<<< HOPE YOU ARE GETTING APPROPRIATE RESULTS >>>>>>>")

print("\n")

after_sigin()

db.commit()

def viewpropertyarea(): #knowing details under required area.

db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagement")

```
cur=db.cursor()
```

```
try:
```

```
    print(" <<<< PRICE DETAILS >>>> ")
```

```
    print("\n")
```

```
    k="select * from main_table"
```

```
    cur.execute(k)
```

```
    data=cur.fetchall()
```

```
    a=int(input("enter under required area:- "))
```

```
    for i in data:
```

```
        if i[5]<=a:
```

```
            print("-----")
```

```
            print(">Property ID:", i[0])
```

```
            print(">Property Category:", i[1])
```

```
            print(">Property Type:", i[2])
```

```
            print(">Ownership:", i[3])
```

```
            print(">Locality:", i[4])
```

```
            print(">Area in sqft:", i[5])
```

```
            print(">Price:", i[6])
```

```
            print(">Ratings:", i[7])
```

```
            print("-----")
```

```
            print("\n")
```

```
        else:
```

```
            print(" FOR -",i[4],"-REQUIRED AREA NOT FOUND")
```

```
            print("-----")
```

```
            print("\n")
```

```
except ValueError:
```

```
print("<<<<<< INVALID INPUT >>>>>>")
```

```
print("\n")
```

```
after_signin()
```

```
else:
```

```
print("...HOPE YOU R GETTING APPROPRIATE RESULTS...")
```

```
after_signin()
```

```
def viewpropertylocation():
```

```
    db = mysql.connector.connect(host="localhost", user="root", password="admin",  
database="realestatemanagement")
```

```
    cur = db.cursor()
```

```
    try:
```

```
        print("<<<< LOCATION DETAILS >>>> ")
```

```
        print("\n")
```

```
        l = input("ENTER YOUR DESIRED LOCATION:- ")
```

```
        s = "SELECT * FROM main_table"
```

```
        cur.execute(s)
```

```
        loc = cur.fetchall()
```

```
        print("-----PROPERTY DETAILS AT A CERTAIN LOCATION-----")
```

```
        print("\n")
```

```
        print("NEAR:-", l)
```

```
        print("\n")
```

```
    for i in loc:
```

```
        if l == i[4]:
```

```
            print("-----")
```

```
            print("CATEGORY:-", i[1])
```

```
print("PROPERTY TYPE:-", i[2])
```

```
print("PRICE-", i[6])
```

```
print("-----")
```

```
print("\n")
```

```
if not any(l == i[4] for i in loc):
```

```
    print("===== No properties found in the specified location =====")
```

```
except:
```

```
    print("===== ERROR OCCURED =====")
```

```
    viewpropertylocation()
```

```
else:
```

```
    after_signin()
```

```
def viewpropertyownership():
```

```
    print("-----CHECK FOR PROPERTY OWNERSHIP-----")
```

```
    print("\n")
```

```
    db = mysql.connector.connect(host="localhost", user="root", password="admin",  
database="realestatemanagement")
```

```
    cur = db.cursor()
```

```
    s = "SELECT * FROM main_table"
```

```
    cur.execute(s)
```

```
try:
```

```
    p_category = input("Enter your desired property category: ")
```

```
    p_type = input("Enter your required property type: ")
```

```
    print("\n")
```

```
    data = cur.fetchall()
```

```
    found = False
```

for i in data:

if p_category == i[1] and p_type == i[2]:

found = True

print("-----")

print("FOR--", i[4])

print("CATEGORY:", i[1])

print("TYPE:", i[2])

print("==OWNERSHIP==", i[3])

print("LOCATION:", i[4])

print("-----")

print("\n")

if not found:

print("==== No properties found matching the criteria =====")

except ValueError:

print(" <<<<<< INVALID INPUT >>>>>>")

print("\n")

viewpropertyownership()

else:

print(" -----THANK YOU----- ")

after_signin()

def sign_up_user():

print("-----SIGN UP USER-----")

print("\n")

```
db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagem
ent")

print("Enter 1 for Userlogin ")
print("Enter 2 for Exit")
print("\n")
ch=int(input("Enter your choice:- "))

if ch==1:
    userloginfo()
elif ch==2:
    exit()
else:
    print("===== invalid input =====")
    print("\n")
    sign_up_user()

def userloginfo():

    db = mysql.connector.connect(host="localhost", user="root", password="admin",
database="realestatemanagement")

    cur = db.cursor()

    print(" -----LOGIN PORTAL FOR USERS-----")

    try:

        cur.execute("SELECT * FROM user_login")

        user_data = cur.fetchall()
```

```
username = input("Enter username:- ")
```

```
password = input("Enter password:- ")
```

```
user_found = False
```

```
for user in user_data:
```

```
    if user[0] == username and user[1] == password:
```

```
        user_found = True
```

```
        print(" === USER EXIST === ")
```

```
        print("\n")
```

```
        print(" USERNAME:", user[0])
```

```
        print(" PASSWORD:", user[1])
```

```
        break
```

```
if not user_found:
```

```
    print("\n")
```

```
except ValueError():
```

```
    print(" === INVALID INPUT === ")
```

```
    print("\n")
```

```
    userloginfo()
```

```
else:
```

```
    print(" ===== LOGIN HAS BEEN SUCCESSFUL ===== ")
```

```
    print("\n")
```

```
    after_signin()
```

```
finally:
```

```
    db.commit()
```

```
def after_signin():

    print("===== WELCOME TO REAL ESTATE MANAGEMENT SYSTEM =====")
    print("\n")
    print("-> 1 for view all properties: ")
    print("-> 2 for view all property types: ")
    print("-> 3 for view property location: ")
    print("-> 4 for view property details under required area: ")
    print("-> 5 for view property ownership: ")
    print("-> 6 for view rental properties: ")
    print("-> 7 for view property details under required category: ")
    print("-> 8 for view property categories: ")
    print("-> 9 for order property:")
    print("-> 10 for exit:")
    print("\n")

    ch=int(input("Enter your choice:- "))

    if ch==1:
        viewallproperty()
    elif ch==2:
        viewpropertytype()
    elif ch==3:
        viewpropertylocation()
    elif ch==4:
        viewpropertyarea()
    elif ch==5:
        viewpropertyownership()
    elif ch==6:
        viewrentalproperty()
```



```
elif ch==7:
```

```
    viewpropertycategorydetails()
```

```
elif ch==8:
```

```
    viewpropertycategory()
```

```
elif ch==9:
```

```
    orderprop()
```

```
elif ch==10:
```

```
    exit()
```

```
else:
```

```
    print("==== invalid choice =====")
```

```
    print("\n")
```

```
    after_signin()
```

```
def addproperty(): # adding details of a new property
```

```
db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagem  
ent")
```

```
cur=db.cursor()
```

```
print("<<<<<ADDING PROPERTY DETAILS INTO THE SOFTWARE>>>>>")
```

```
print("\n")
```

```
try:
```

```
    pcat=input("enter property category: ")
```

```
    ptype=input("enter property type: ")
```

```
    pid=int(input("enter p-id: "))
```

```
    area=int(input("enter area in sqft: "))
```

```
loc=input("enter locality: ")
own=input("enter ownership: ")
price=int(input("enter price: "))
rat=int(input("enter customer ratings: "))
xnot="insert into main_table values({}, '{}', '{}', '{}', '{}', {}, {}, '{}')".format(pid,pcat,ptype,own,loc,area,price,rat)
cur.execute(xnot)
print("\n")
db.commit()
```

except ValueError:

```
print("\n")
print(" <<<<<< INVALID INPUT >>>>>> ")
print("\n")
addproperty()
```

else:

```
print(" <<<<< PROPERTY DETAILS ADDED SUCCESSFULLY >>>>>")
print("\n")
after_login()
```

```
def viewallproperty():#showing all the updated property details
```

[illegible]

```
data=cur.fetchall()

print(" ===== ALL PROPERTIES ARE SHOWN BELOW ===== ")
```

```
for i in data:

    print("\n")
    print("-----")
    print("Property id:",i[0])
    print("Property category:",i[1])
    print("Property type:",i[2])
    print("Ownership:",i[3])
    print("Locality:",i[4])
    print("Area in sqft:",i[5])
    print("Price:",i[6])
    print("Customer ratings:",i[7])
    print("-----")
    print("\n")
```

```
after_signin()
```

```
db.commit()
```

```
def adminloginfo(): #admin login portal
```

```
db=mysql.connector.connect(host="localhost",user="root",password="admin",database="realestatemanagem
ent")
```

```
cur=db.cursor()
```

```
print("*****LOGIN PORTAL FOR ADMIN*****")
```

```
try:
```

```
    x=input("Enter admin name:- ")
```

```
    y=int(input("Enter password:- "))
```

```
a="select * from admin_login"
```

```
cur.execute(a)
```

```
ad=cur.fetchall()
```

```
for i in ad:
```

```
    if i[0]==x and i[1]==y:
```

```
        print("LOGIN FOR ADMIN")
```

```
        print("NAME:",x)
```

```
        print("PASS:",y)
```

```
        print("\n")
```

```
    else:
```

```
        print(" ===== DATA UNMATCHED =====")
```

```
        print(" ===== PLEASE TRY AGAIN =====")
```

```
        print("\n")
```

```
        adminloginfo()
```

```
except ValueError:
```

```
    print(" <<<<<< INVALID INPUT >>>>>>")
```

```
    print("\n")
```

```
    print(" <<<<< TRY AGAIN >>>>>")
```

```
    adminloginfo()
```

```
else:
```

```
    print("<<<< LOGIN HAS DONE SUCCESSFULLY >>>>")
```

```
    print("\n")
```

```
    after_login()
```

```
def after_login():  
    print(" ===== WELCOME TO REAL ESTATE MANAGEMENT SYSTEM =====")  
    print("\n")  
    print("=====ADMIN PAGE FOR PROPERTY MODIFICATION ONLY=====")  
    print("\n")  
  
    print(" PRESS 1 FOR ADDING PROPERTY ")  
    print(" PRESS 2 FOR DELETING PROPERTY ")  
    print(" PRESS 3 FOR UPDATING PROPERTY ")  
    print(" PRESS 4 FOR VIEWING ORDER DETAILS OF CUSTOMERS")  
    print(" PRESS 5 FOR EXIT ")  
    print("\n")  
    choice=int(input("ENTER YOUR CHOICE:- "))  
    if choice==1:  
        addproperty()  
    elif choice==2:  
        deleteproperty()  
    elif choice==3:  
        updateproperty()  
    elif choice==4:  
        view_order_details()  
    elif choice==5:  
        exit()  
  
    else:  
        print("===== INVALID CHOICE =====")  
        print("\n")  
        print("===== PLEASE TRY AGAIN =====")  
        after_login()
```

```
def viewrentalproperty():
```

```
    db= mysql.connector.connect(host="localhost", user="root", password="admin",  
database="realestatemanagement")
```

```
    cur = db.cursor()
```

```
    print("<<<<< VIEWING RENTAL PROPERTIES >>>>>")
```

```
    print("\n")
```

```
    try:
```

```
        query = "SELECT * FROM main_table WHERE OWNERSHIP = 'Rent'"
```

```
        cur.execute(query)
```

```
        rental_properties = cur.fetchall()
```

```
    if rental_properties:
```

```
        print("-----RENTAL PROPERTY DETAILS-----")
```

```
        for property in rental_properties:
```

```
            print("-----")
```

```
            print("Property ID:", property[0])
```

```
            print("Property Category:", property[1])
```

```
            print("Property Type:", property[2])
```

```
            print("Ownership:", property[3])
```

```
            print("Locality:", property[4])
```

```
            print("Area in sqft:", property[5])
```

```
            print("Price Per quarter", property[6])
```

```
            print("Ratings:", property[7])
```

```
            print("-----")
```

```
print("\n")
```

```
else:
```

```
print("==== No rental properties found =====")
```

```
except :
```

```
print("==== An error occurred =====")
```

```
else:
```

```
after_signin()
```

```
while True:
```

```
print("=====")
```

```
print("=====WELCOME TO SPEDOSERV=====")
```

```
print("=====REALESTATE MANAGEMENT SYSTEM=====")
```

```
print("=====")
```

```
print("\n")
```

```
print("=====PLEASE UNDERGO THE FOLLOWING STEPS TO ACCESS THIS SOFTWARE=====")
```

```
print("\n")
```

```
print("1. LOGIN AS ADMIN")
```

```
print("2. LOGIN AS USER")
```

```
print("3. EXIT")
```

```
try:
```

```
choice = input("ENTER YOUR CHOICE:- ")
```

```
if choice == "1":
```

```
adminloginfo()
```

```
elif choice == "2":
```

```
sign_up_user()
```

```
elif choice == "3":
```

```
print("==== THANK YOU FOR USING SPEDOSERV =====")
```

```
break
```

except ValueError:

print("<<<<< INVALID INPUT >>>>>")

print("\n")

print("<<<<< PLEASE TRY AGAIN >>>>>")

else:

print("=====THANK YOU=====")

print("\n")

DATABASE

#TABLE FOR ALL PROPERTY DETAILS:-

```
mysql> select * from main_table;
```

PID	PCAT	PTYPE	OWNERSHIP	LOCALITY	AREAINsqft	PRICE	RATINGS
1	Residential	Apartment	Sale	Downtown	1200	250000	4
2	Commercial	Office	Rent	Uptown	1500	3000	5
3	Residential	Villa	Sale	Suburb	2500	500000	3
4	commercial	theater	sale	losangles	2300	1200000	4
5	Apartment	Studio	Sale	Downtown	600	120000	4
6	Villa	Studio	Sale	Countryside	3000	500000	5
7	Apartment	2BHK	Rent	Uptown	1100	2200	4
8	Condo	1BHK	Sale	City Center	750	180000	3
9	Villa	3BHK	Rent	Suburb	2500	100000	4
10	Apartment	Studio	Sale	Downtown	1200	250000	5
11	Condo	3BHK	Rent	City Center	1500	3500	4
12	Villa	5BHK	Sale	Countryside	4000	700000	5
13	Apartment	1BHK	Rent	Uptown	800	1500	3
14	Condo	2BHK	Sale	City Center	950	220000	4
15	Villa	4BHK	Rent	Suburb	2800	3500	4
16	Apartment	Studio	Sale	Downtown	1300	270000	5
17	Condo	1BHK	Rent	City Center	900	2000	4
18	Villa	Studio	Sale	Countryside	2200	400000	5
19	Apartment	2BHK	Rent	Uptown	1150	2400	4
20	Condo	2BHK	Sale	City Center	1000	230000	4
21	Villa	3BHK	Rent	Downtown	9700	230000	5
22	Apartment	2BHK	Sale	Uptown	5600	102000	4

#LOGIN TABLE FOR USERS:-

```
mysql> select * from user_login;
```

username	password
sujal	123
sankit	456
sidhant	789
pratyasha	10
AYUSH	1

#TABLE FOR RENTAL PROPERTIES:-

```
mysql> select * from pforental;
```

ptype	loc	area	price
Apartment	Downtown	800	1200
Villa	Suburbs	1500	2500
Studio	City Center	400	800
Condo	Uptown	1000	1800
Bungalow	Countryside	1200	2000
Loft	Industrial Area	900	1500

#TABLE FOR ORDER DETAILS OF CUSTOMERS:-

```
mysql> select * from order_table;
```

username	orderid	prop_id	prop_category	prop_type	price
doe	101	1	Apartment	2BHK	250000.00
smith	102	2	Villa	Studio	350000.00
alice	103	3	Condo	1BHK	180000.00
bob	104	4	Apartment	1BHK	150000.00
charlie	105	5	Villa	Studio	500000.00
david	106	6	Condo	2BHK	220000.00
eve	107	7	Apartment	Studio	270000.00
frank	108	8	Villa	3BHK	300000.00
grace	109	9	Condo	Studio	240000.00
henry	110	10	Apartment	1BHK	120000.00
ayush	111	9	Villa	3BHK	100000.00
smruti	112	14	Condo	2BHK	220000.00
sujal	123	3	commercial	vending	76890.00

#OUTPUTS#

DISPLAYING MAIN MENU :-

```
=====
=====WELCOME TO SPEDOSERV=====
=====REALESTATE MANAGEMENT SYSTEM=====
=====

=====PLEASE UNDERGO THE FOLLOWING STEPS TO ACCESS THIS SOFTWARE=====

1. LOGIN AS ADMIN
2. LOGIN AS USER
3. EXIT
ENTER YOUR CHOICE:-
```

LOGIN AS ADMIN:-

```
*****LOGIN PORTAL FOR ADMIN*****
```

```
Enter admin name:- sujal
```

```
Enter password:- 123
```

```
LOGIN FOR ADMIN
```

```
NAME: sujal
```

```
PASS: 123
```

```
<<<< LOGIN HAS DONE SUCCESSFULLY >>>>
```

ADMIN PAGE :-:-

===== WELCOME TO REAL ESTATE MANAGEMENT SYSTEM =====

=====ADMIN PAGE FOR PROPERTY MODIFICATION ONLY=====

PRESS 1 FOR ADDING PROPERTY
PRESS 2 FOR DELETING PROPERTY
PRESS 3 FOR UPDATING PROPERTY
PRESS 4 FOR VIEWING ORDER DETAILS OF CUSTOMERS
PRESS 5 FOR EXIT

ENTER YOUR CHOICE:-

ADDING PROPERTY:-

ENTER YOUR CHOICE:- 1

<<<<<<ADDING PROPERTY DETAILS INTO THE SOFTWARE>>>>>>

enter property category: Villa
enter property type: 5BHK
enter p-id: 23
enter area in sqft: 7600
enter locality: Downtown
enter ownership: Sale
enter price: 120000
enter customer ratings: 5

<<<<<< PROPERTY DETAILS ADDED SUCCESSFULLY >>>>>>

#UPDATING PROPERTY DETAILS:-

ENTER YOUR CHOICE:- 3

<<<<< UPDATING PROPERTY DETAILS >>>>>

Enter the Property ID to update: 22

Current Property Details:

Property ID: 22

Category: Apartment

Type: 2BHK

Ownership: Sale

Locality: Uptown

Area in sqft: 5600

Price: 102000

Ratings: 4

Enter new property category:- Villa

Enter new property type:- 3BHK

Enter new price:- 56000

Enter new ownership status:- Rent

***** PROPERTY DETAILS UPDATED SUCCESSFULLY *****

Updated Property Details:

Property ID: 22

Category: Villa

Type: 3BHK

Ownership: Rent

Price: 56000

#SHOWING ORDER DETAILS :-

ENTER YOUR CHOICE:- 4

===== ORDER DETAILS OF CUSTOMERS =====

Username: nikhil
Order ID: 116
Property ID: 22
Property Category: Apartment
Property Type: 2BHK
Price: 102000

SO ON....

#LOGIN AS USER:-

ENTER YOUR CHOICE:- 2

-----SIGN UP USER-----

Enter 1 for Userlogin

Enter 2 for Exit

Enter your choice:- 1

-----LOGIN PORTAL FOR USERS-----

Enter username:- sankit

Enter password:- 456

===== LOGIN HAS BEEN SUCCESSFUL =====

===== WELCOME TO REAL ESTATE MANAGEMENT SYSTEM =====

- > 1 for view all properties:
- > 2 for view all property types:
- > 3 for view property location:
- > 4 for view property details under required area:
- > 5 for view property ownership:
- > 6 for view rental properties:
- > 7 for view property details under required category:
- > 8 for view property categories:
- > 9 for order property:
- > 10 for exit:

Enter your choice:-



#VIEWING ALL PROPERTY DETAILS:-

===== ALL PROPERTIES ARE SHOWN BELOW =====

Property id: 1

Property category: Residential

Property type: Apartment

Ownership: Sale

Locality: Downtown

Area in sqft: 1200

Price: 250000

Customer ratings: 4

Property id: 2

Property category: Commercial

Property type: Office

Ownership: Rent

Locality: Uptown

Area in sqft: 1500

Price: 3000

Customer ratings: 5

Property id: 3
Property category: Residential
Property type: Villa
Ownership: Sale
Locality: Suburb
Area in sqft: 2500
Price: 500000
Customer ratings: 3

Property id: 4
Property category: commercial
Property type: theater
Ownership: sale
Locality: losangles
Area in sqft: 2300
Price: 1200000
Customer ratings: 4

SO ON..

SHOWING ALL PROPERTY CATEGORIES:-

Enter your choice:- 8

===== PROPERTY CATEGORIES =====

- * Residential
 - * Commercial
 - * Apartment
 - * Villa
 - * Condo
-

DETAILS FOR A SPECIFIC LOCATION:-

Enter your choice:- 3

<<<< LOCATION DETAILS >>>>

ENTER YOUR DESIRED LOCATION:- Downtown

-----PROPERTY DETAILS AT A CERTAIN LOCATION-----

NEAR:- Downtown

CATEGORY:- Residential

PROPERTY TYPE:- Apartment

PRICE- 250000

CATEGORY:- Apartment

PROPERTY TYPE:- Studio

PRICE- 120000

CATEGORY:- Apartment

PROPERTY TYPE:- Studio

PRICE- 250000

DETAILS UNDER REQUIRED AREA:-

Enter your choice:- 4

<<<< PRICE DETAILS >>>>

enter under required area:- 1020

FOR - Downtown -REQUIRED AREA NOT FOUND

FOR - Uptown -REQUIRED AREA NOT FOUND

FOR - Suburb -REQUIRED AREA NOT FOUND

FOR - losangles -REQUIRED AREA NOT FOUND

- >Property ID: 5
- >Property Category: Apartment
- >Property Type: Studio
- >Ownership: Sale
- >Locality: Downtown
- >Area in sqft: 600
- >Price: 120000
- >Ratings: [7]

#SHOWING RENTAL PROPERTIES:-

Enter your choice:- 6

<<<<<< VIEWING RENTAL PROPERTIES >>>>>>

-----RENTAL PROPERTY DETAILS-----

Property ID: 2

Property Category: Commercial

Property Type: Office

Ownership: Rent

Locality: Uptown

Area in sqft: 1500

Price Per quarter 3000

Ratings: 5

Property ID: 7

Property Category: Apartment

Property Type: 2BHK

Ownership: Rent

Locality: Uptown

Area in sqft: 1100

Price Per quarter 2200

Ratings: 4

Property ID: 9

Property Category: Villa

Property Type: 3BHK

Ownership: Rent

Locality: Suburb

Area in sqft: 2500

#PROPERTY DETAILS USING CATEGORIES:-

Enter your choice:- 7

>>>>>>> PROPERTY CATEGORIES <<<<<<<<

===== Available Property Categories =====

- * Residential
- * Commercial
- * Apartment
- * Villa
- * Condo

=====SELECT YOUR CHOICE FROM THE ABOVE=====

Enter your desired property category:- Condo

===== PROPERTY DETAILS =====

Property ID: 8
Category: Condo
Type: 1BHK
Ownership: Sale
Locality: City Center
Area in sqft: 750
Price: 180000
Ratings: 3

Property ID: 11
Category: Condo
Type: 3BHK
Ownership: Rent
Locality: City Center
Area in sqft: 1500
Price: 3500
Ratings: 4

#ORDERING PROPERTY:-

Enter your choice:- 9

Enter property type: 2BHK

Enter property category: Apartment

Property found!

Property ID: 7

Property Category: Apartment

Property Type: 2BHK

Ownership: Rent

Locality: Uptown

Area in sqft: 1100

Price: 2200

Ratings: 4

Property ID: 19

Property Category: Apartment

Property Type: 2BHK

Ownership: Rent

Locality: Uptown

Area in sqft: 1150

Price: 2400

Ratings: 4

Do you want to purchase ANY property? (yes/no): yes

Enter your name: sankit

Enter order ID: 100

Enter property ID: 19

Enter property category: Apartment

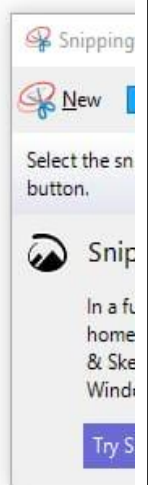
Enter property type: 2BHK

Enter property price: 2400

===== Order placed successfully =====

Thank you for choosing us!

=====



References

In order to work on this project titled **-(REAL ESTATEMANAGEMENT SYSTEM)**, the following books and websites are referred by me during the various phases of development of the project.

- 1) Class 11th & 12th Computer Science Books (SUMITA ARORA)
- 2) www.youtube.com
- 3) www.python.com

Other than the above-mentioned books, the suggestions and supervision of my teacher and my class experience also helped me to develop this software project.