PROPERTY MANAGEMENT SYSTEM

IMPLEMENTATION LOGIC:

We have implemented property management system using cpp language with oops concepts to help the people who wanted to sell or buy the properties easily. In this project we used database MYSQL to store the data and oops concepts like Exception Handling, Inheritance.

Firstly, we have connected DEV-C++ to MYSQL database and created four tables in database called admin, customer, booked and property. In which we will store the admin details, customer details, the booked details, and all property details respectively. Coming to the code implementation firtly, we have given four options they are Sign Up, Sign In, Admin Sign-In and Exit.

➢ **Sign Up:**

If the user is new then he has to select Sign Up option then, it will ask to enter their details such as Name, Phone number etc. In Phone Number We have used exception handling concept that the user has to enter only 10 numbers if he entered more than that it will throw an error .After entering their details it will ask the

user if he want to sell or buy the property(Y/N)? if he entered Y then he will sign up as admin and it will ask him the username and password for security purpose as it will check the entered data with the existing data in the database with the help of checkACredentials Function which we have written. This entered data is directly save to the property table in database. If he entered 'N' he will sign up as Customer.

> ## Sign In:
>   If the user has an account already then he can select sign in option and he can entered his user name and password to signin then it will display four options
> 1. View Property list.
> 2. Search Property List.
> 3. Book Property.
> 4. Main menu.
> If he selected 1 then it will display all the property details from the property table in our database here we have created one class called Sign in and inherited from the other two classes called Property and CheckCCredentials which we used to enter the property details and to check the customer details respectively.If he enter 2 then it will search the property by two ways that is by location and by property Id . If he enter 3 it will book the data whatever he want and that data will add to the booked table. Here in class signin we have created 3 member

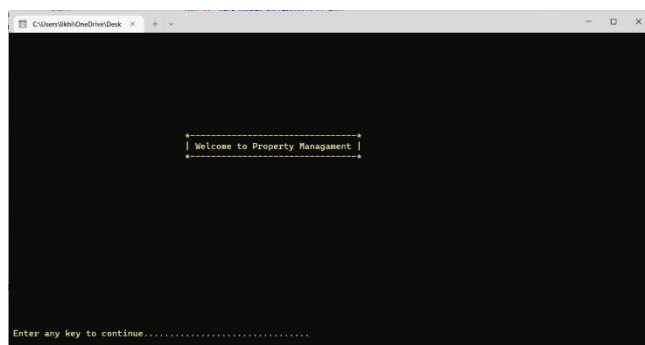functions called viewprop(),searchprop(),bookprop() to implement the above idea.

> ## Admin Sign-In:

If the user selected admin sign-in then it will ask to enter the user name and password it will check the database with the help of CreckACredential Function. It will ask 6 options they are
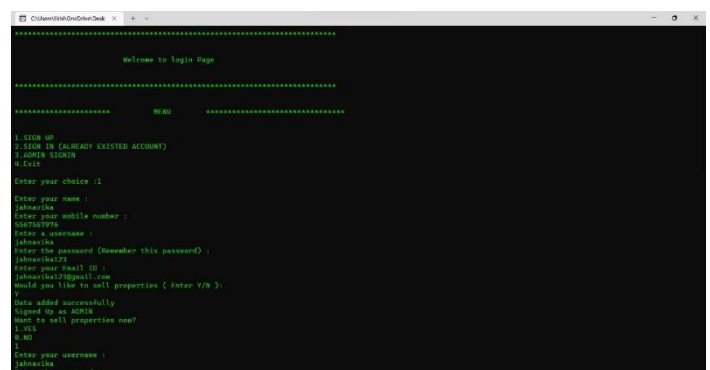
1. Add Details
2. View list
3. View all Bookings
4. Delete Record
5. Main Menu
6. Exit

Here, we have created a_Sign-in class which is inherited from the property class with public functions checkAdmin, ViewAprop, bookedaprop ,deleteAprop to implement above requirments.

Result:

Individual Contribution:

Property Management system:

K Sai Likhitha (S20210020289)

Classes-Sign Up , CheckCCredential, Sign-in.

Functions-getsignupdata ,checkCdata ,viewprop ,searchprop ,locationsearch ,pidsearch ,bookprop.

V Jahnavika Reddy(S20210020330)

Classes-CheckACredentials, Property a_signin database_connection.

Functions- checkAdata, getpropertydata ,checkadmin ,viewAprop,bookedAprop,deleteAprop

Conclusion:

So ,From this management system we have made the process of selling and buying the properties friendly to users with multiple admins accessing the bookings of the properties.

EVENT MANAGEMENT SYSTEM

IMPLEMENTATION LOGIC:

We have implemented event management system using c++ language with oops concepts to help the people who wanted to organize an event or book an event easily. In this project we used database MYSQL to store the data and oops concepts like Exception Handling, Inheritance.

Firstly, we have connected DEV-C++ to MYSQL database and created four tables in database called organiser, customer, information and signup. In which we will store the admin details, customer details, the booked details, and all booked event details respectively.

Coming to the code implementation firstly, we have given three options they are Sign Up, Sign In and Exit.

> ### Sign Up:

If the user is new then he has to select Sign Up option then, it will ask to enter their basic details such as Name, Phone number,emailid etc. After entering their details it will ask the user if he want to organise an event or book an event(1/2)? if he entered   then he will sign up as organiser and it will ask him the username and password for security purpose as it will check the entered data with the existing data in the database with the help of organiser database table we have organiser. For organiser we are taking some basic information for the data and security issues . This entered data is directly save to the organiser table in database. If he entered '2' he will sign up as Customer. For customer it will ask basic information like email address to create an account in customer database table.

➢ Sign In:

If the user has an account already he have to say whether he is a customer or organiser (1/2)?

If the user enter 1->customer he has to enter username and password ,then here we were using exception handling to the password if he press wrong password he was asked to check again ,only two chances we are allocated after that also if there is an wrong password it will again enter to the login page. This whole operation is in void checkcustomer() .

After customer checking we are providing two options to book an event and display their booked data.

For booking we created a function bookdata() inside the class admincustomerdata .

If the user enter 2->organiser he has to enter username and password ,then here we were using exception handling to the password if he press wrong password he was asked to check again ,only two chances we are allocated after that also if there is an wrong password it will again enter to the login page. This whole operation is in void checkorganise() .

After organiser checking we are providing two options to add a new event ,display their booked data .

For adding new event we created a function addnewdata() inside the class admincustomerdata .

For displaying the respective organiser booking data we created displayorganiserdata() in class signin.

HIERARCHICAL INHERITANCE:

BASE CLASS   : signup

DERIVED CLASS: admin class and customer class

```cpp
//Base class SIGN UP and derived class is customer class

class customer : public signup{
    private:
    //total information display and wt he wat to bbok in event
    //customer information
    char user_name[60], pass_word[45] , name[45] ,phone_number[45] , email_id[45] ;
        string sentence_au ;
            char* consult2;
            char* sentence2 ;
    //event booking
```

```cpp
//Base class SIGN UP and derived class is admin class

class admin :public signup{
    private:
        char username[60] , password[45] ,  organisername[60] , org_email[45] , experience_sector[45] , location[45] , cost[45] ;
        char  org_phonenumber[10];
        string sentence_aux1 ;
        char* consult1 ;
        char* sentence1 ;
    public:

    void newdata(){
```

ORGANISER SIGNUP

```
                    Welcome to Sign Up                                          |
.................................................................................

              Name:Ram
              Enter your phonenumber:9247318187

-----CREATE YOUR ACCOUNT------

              Create your Username:ram_soldier
              Password: sita

              You want to become
              1->organiser
              2-> customer    1


              Enter Username:ram_soldier


              Password: sita


              Organiser name:Ram


              Phonenumber:9247318187


              Email:ram.s@gmail.com


              Experience in this field(years):5


              Loaction of the event:kashmir


              cost of the event:50,000
```

CUSTOMER SIGNUP

```
*------------------------------------------------------------------*
|                      Welcome to Sign Up                          |
*------------------------------------------------------------------*


                Name:Sita
                Enter your phonenumber:9550645524


-----CREATE YOUR ACCOUNT-----


                Create your Username:sita_princess
                Password: ram

                You want to become
                1->organiser
                2-> customer   2



                NameSita


                Your username:sita_princess


                Password:ram


                Phonenumber:9550645524


                Your email id:sita.p@gmail.com
```

```
                Username: sita_princess

                Password:ram
        Successfully logged in........

                1->Book your event ,2->exit

                check the organisers data
            Organiser data
```

Username	organisername	org_phonenumber	org_email	experience_sector	location	cost
aryan_chris	chirs	1234567890	chirsaryan@gmail.com	10	sricity	20000
jahnavika_reddy	jahnavika	1230975642	jahnavika_reddy@gmail.com	3	goa	20000
jhansi	jahansdc	2343535623	jahnavi@gmail.com	4	seetharamapuram	20000
ram_soldier	Ram	9247318187	ram.s@gmail.com	5	kashmir	50,000
tonystarck	kiranmai	9550657167	kiranmai.a@.in	11	Vishakhapatnam	50,000
vijay	vijayvardhan	1234354657	vijaybujji@gmail.com	5	hyderbad	23444

organisername	event_type	venue	date	time	costevent
Hulk	birthdayparty	hyderabad	09-02-2023	4:00pm	50,000
kanth	marriage	vizag	1-1-2023	10:30AM	50,000
ram_solider	partynight	30,000	12-12-2022	11:00	PM
vijay1	party	kurnool	23-11-2022	10:00PM	25,000
tonystarck	marriage	vishakhapatnam	29-03-2023	12:00pm	2,00,000
vijay	birthday	kurnool	30-12-2022	9:45AM	10,000
vijay	deathceremony	kurnool	31-12-2023	1:00PM	100000

```
            Enter the event type:partynight

            Enter the organiser username u want:ram_soldier

            enter the venue:Vizag

            Enter the date(DD-MM-YYYY):12-01-2022

            Enter the time10:45PM

            You can contact the organiser regarding amount and enter the finalised value

            Enter the finalised cost15,000
```

EXCEPTION HANDLING:

```cpp
try{

while(row = mysql_fetch_row(res))
{

        if(row[1]== pass){
            cout << "\t ";

            throw flag++ ;
        }

    }
}
        catch(int x){
        cout << "Successfully logged in........." <<endl
```

ADD DATA AND DISPLAYING THE BOOKED DATA


```
                    Welcome to Sign In                                    |
------------------------------------------------------------------------- *
        1->Customer
        2->organiser

        Username: ram_soldier

        Password:sita
Successfully logged in.........


        Enter 1-> Display the Event on your name , 2-> Adding new data , 3->exit1

        Enter your usernameram_soldier
-------------------------------------------------------------------------------
sername      | Event_type    | Venue      | data       | time      | costevent
-------------------------------------------------------------------------------
am_soldier   | partynight    | Vizag      | 12-01-2022 | 10:45PM   | 15,000
am_soldier   | Reunion       | Nandyal    | 13-01-2023 | 10:45     | AM
-------------------------------------------------------------------------------
        Enter 1-> Display the Event on your name , 2-> Adding new data , 3->exit2

        Enter username:ram_soldier

        Enter eventtype:BachelorParty

        Enter venue:Chennai

        Enter date(DD-MM-YYYY):03-12-2022

        Enter Timings:01:15AM

        Enter the cost of that event:
                        45,000
        Enter 1-> Display the Event on your name , 2-> Adding new data , 3->exit3
```

Individual Contribution:

Event Management system:

A.Kiranmai (S20210020251)

Signin class and its member functions, Exceptionhandling ,admincustomerdata class and its member functions.
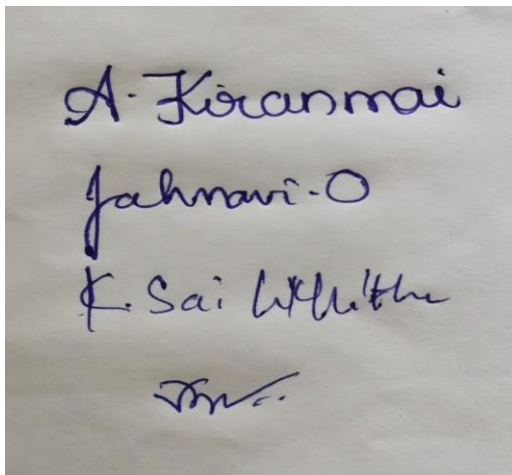
O. Jahnavi(S20210020301)

Database connection to Dev C++

Signup class and its member functions, Hierarchical inheritance.

CONCLUSION:

From this management system we have made the process of organising and booking an events easily with multiple organisers accessing the bookings of the events.

SIGNATURES OF THE PROJECT MEMBERS:

A. Kiranmai

Jahnavi-O

K. Sai Likhith