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//C++ PROJECT: THE PROGRAM FOR HOTEL MANAGEMENT

//START

#include<iostream>

#include<conio.h>

#include<fstream>

#include<stdio.h>

#include<stdlib.h>

#include<dos.h>

using namespace std;

//START OF CLASS

class hotel

{

int room\_no;

char name[30];

char address[50];

char phone[10];

public:

void main\_menu(); //to dispay the main menu

void add(); //to book a room

void display(); //to display the customer record

void rooms(); //to display alloted rooms

void edit(); //to edit the customer record

int check(int); //to check room status

void modify(int); //to modify the record

void delete\_rec(int); //to delete the record

void bill(int); //for the bill of a record

};

//END OF CLASS

//FOR DISPLAYING MAIN MENU

void hotel::main\_menu()

{

int choice;

while(choice!=5)

{

system("cls");

cout<<"\n\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\t\t\t\t SIMPLE HOTEL MANAGEMENT ";

cout<<"\n\t\t\t\t \* MAIN MENU \*";

cout<<"\n\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n\n\t\t\t1.Book A Room";

cout<<"\n\t\t\t2.Customer Records";

cout<<"\n\t\t\t3.Rooms Allotted";

cout<<"\n\t\t\t4.Edit Record";

cout<<"\n\t\t\t5.Exit";

cout<<"\n\n\t\t\tEnter Your Choice: ";

cin>>choice;

switch(choice)

{

case 1: add();

break;

case 2: display();

break;

case 3: rooms();

break;

case 4: edit();

break;

case 5: break;

default:

{

cout<<"\n\n\t\t\tWrong choice.....!!!";

cout<<"\n\t\t\tPress any key to continue....!!";

getch();

}

}

}

}

//END OF MENU FUNCTION

//FUNCTION FOR BOOKING OF ROOM

void hotel::add()

{

system("cls");

int r,flag;

ofstream fout("Record.dat",ios::app);

cout<<"\n Enter Customer Detalis";

cout<<"\n ----------------------";

cout<<"\n\n Room no: ";

cout<<"\n Total no. of Rooms - 50";

cout<<"\n Ordinary Rooms from 1 - 30";

cout<<"\n Luxuary Rooms from 31 - 45";

cout<<"\n Royal Rooms from 46 - 50";

cout <<"\n Enter The Room no. you want to stay in :- "<<endl;

cin>>r;

flag=check(r);

if(flag)

cout<<"\n Sorry..!!!Room is already booked";

else

{

room\_no=r;

cout<<" Name: ";

cin>>name;

cout<<" Address: ";

cin>>address;

cout<<" Phone No: ";

cin>>phone;

fout.write((char\*)this,sizeof(hotel));

cout<<"\n Room is booked...!!!";

}

cout<<"\n Press any key to continue.....!!";

getch();

fout.close();

}

//END OF BOOKING FUNCTION

//FUNCTION FOR DISPLAYING A PURTICULAR CUSTOMER`S RECORD

void hotel::display()

{

system("cls");

ifstream fin("Record.dat",ios::in);

int r,flag;

cout<<"\n Enter room no. for a particular customer`s details :- "<<endl;

cin>>r;

while(!fin.eof())

{

fin.read((char\*)this,sizeof(hotel));

if(room\_no==r)

{

system("cls");

cout<<"\n Cusromer Details";

cout<<"\n ----------------";

cout<<"\n\n Room no: "<<room\_no;

cout<<"\n Name: "<<name;

cout<<"\n Address: "<<address;

cout<<"\n Phone no: "<<phone;

flag=1;

break;

}

}

if(flag==0)

cout<<"\n Sorry Room no. not found or vacant....!!";

cout<<"\n\n Press any key to continue....!!";

getch();

fin.close();

}

//END OF DISPLAY FUNCTION

//FUNCTION TO DISPLAY ALL ROOMS OCCUPIED

void hotel::rooms()

{

system("cls");

ifstream fin("Record.dat",ios::in);

cout<<"\n\t\t\t List Of Rooms Allotted";

cout<<"\n\t\t\t ----------------------";

cout<<"\n\n Room No.\tName\t\tAddress\t\t\t\tPhone No.\n";

while(!fin.eof())

{

fin.read((char\*)this,sizeof(hotel));

cout<<"\n\n "<<room\_no<<"\t\t"<<name;

cout<<"\t\t"<<address<<"\t\t"<<phone;

}

cout<<"\n\n\n\t\t\tPress any key to continue.....!!";

getch();

fin.close();

}

//FUNCTION FOR EDITING RECORDS AND FOR BILL

void hotel::edit()

{

system("cls");

int choice,r;

cout<<"\n EDIT MENU";

cout<<"\n ---------";

cout<<"\n\n 1.Modify Customer Record";

cout<<"\n 2.Delete Customer Record";

cout<<"\n 3. Bill Of Customer";

cout<<"\n Enter your choice: ";

cin>>choice;

system("cls");

cout<<"\n Enter room no: " ;

cin>>r;

switch(choice)

{

case 1: modify(r);

break;

case 2: delete\_rec(r);

break;

case 3: bill(r);

break;

default: cout<<"\n Wrong Choice.....!!";

}

cout<<"\n Press any key to continue....!!!";

getch();

}

int hotel::check(int r)

{

int flag=0;

ifstream fin("Record.dat",ios::in);

while(!fin.eof())

{

fin.read((char\*)this,sizeof(hotel));

if(room\_no==r)

{

flag=1;

break;

}

}

fin.close();

return(flag);

}

//FUNCTION TO MODIFY CUSTOMERS RECORD

void hotel::modify(int r)

{

long pos,flag=0;

fstream file("Record.dat",ios::in|ios::out|ios::binary);

while(!file.eof())

{

pos=file.tellg();

file.read((char\*)this,sizeof(hotel));

if(room\_no==r)

{

cout<<"\n Enter New Details";

cout<<"\n -----------------";

cout<<"\n Name: ";

cin>>name;

cout<<" Address: ";

cin>>address;

cout<<" Phone no: ";

cin>>phone;

file.seekg(pos);

file.write((char\*)this,sizeof(hotel));

cout<<"\n Record is modified....!!";

flag=1;

break;

}

}

if(flag==0)

cout<<"\n Sorry Room no. not found or vacant...!!";

file.close();

}

//END OF MODIFY FUNCTION

//FUNCTION FOR DELETING RECORD

void hotel::delete\_rec(int r)

{

int flag=0;

char ch;

ifstream fin("Record.dat",ios::in);

ofstream fout("temp.dat",ios::out);

while(!fin.eof())

{

fin.read((char\*)this,sizeof(hotel));

if(room\_no==r)

{

cout<<"\n Name: "<<name;

cout<<"\n Address: "<<address;

cout<<"\n Pone No: "<<phone;

cout<<"\n\n Do you want to delete this record(y/n): ";

cin>>ch;

if(ch=='n')

fout.write((char\*)this,sizeof(hotel));

flag=1;

}

else

fout.write((char\*)this,sizeof(hotel));

}

fin.close();

fout.close();

if(flag==0)

cout<<"\n Sorry room no. not found or vacant...!!";

else

{

remove("Record.dat");

rename("temp.dat","Record.dat");

}

}

//END OF DELETE FUNCTION

//FUNCTION FOR CUSTOMER`S BILL

void hotel::bill(int r)

{

hotel h1;

ifstream f1;

f1.open("record.dat",ios::in|ios::binary);

if(!f1)

cout<<"cannot open";

else

{

f1.read((char\*)&h1,sizeof (hotel));

while(f1)

{

f1.read((char\*)&h1,sizeof(hotel));

}

if (h1.room\_no == r)

{

if(h1.room\_no>=1&&h1.room\_no<=30)

cout<<"your bill = 2000";

else if (h1.room\_no>=35&&h1.room\_no<=45)

cout<<"your bill = 5000" ;

else

cout<<"your bill = 7000";

}

else

{ cout<<"room no. not found";}

}

f1.close();

getch();

}

//END OF BILLING FUNCTION

//START OF MAIN PROGARM

int main()

{

hotel h;

system("cls");

cout<<"\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\t\t\t\* HOTEL MANAGEMENT PROJECT \*";

cout<<"\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n\n\t\tDeveloped By:";

cout<<"\t E-26";

cout<<"\n\n\n\n\n\n\n\t\t\t\t\tPress any key to continue....!!";

getch();

h.main\_menu();

return 0;

}

//END OF MAIN PROGRAM









