C++ project

Hotel Management

Made by : Dhruv Patel

Class : XII -SCI A

Acknowledgment

It’s is my pleasure indeed to be indebted to various people , who directly or indirectly contributed in the development of this work and who influenced my thinking ,behaviour and acts during the course of study.

I express my sincere gratitude to worthy principle, Mrs Achala Joshi for providing me an opportunity to undergo computer science project on hotel management. I am thankful to Mrs Mital Patel for her support, cooperation and motivation provided to me during the training for her constant inspiration, presence and blessings. I also extend my sincere appreciation to my classmate who provide his valuable suggestion and precious time in accomplishing my project.

Lastly, I would like to thank the almighty and my parents for their moral support and my friends to whom I experienced my day to day to experience and receive lots of suggestion that improved my quality of work.

INTRODUCTION

Hotel management itself explain that it’s an accounting package that will provide financial solution for a particular organisation or for a particular institutional body. This hotel management helps account to maintain all records on using predefined rules set by on the organisation working pattern. It’s admin module has been developed in such a pattern that allows alterations in working rules any time as per the business requirement. It’s automatic rates and salary are fixed which saves processing time for preparing final ledger. Admin will only have to fill the database with only employee’s details and select their type of work and their post and final report will be prepared by the generation module. As codes have been developed by using concept of object oriented programming so , coding reusability can easily be achieved. Even if their will be changes to made in future , it can be performed by technical person within few seconds just by changing the working rules . All department within the organisation will share the common file to access the particular data , so there is no chance of data redundancy and helping in maintaining data consistency . Each working section can be done by selecting only options its graphical user interface will make the system unique as compared to other system.

HEADER FILES USED

**iostream.h –** To provide C++ input and output fundamentals.

**fstream.h –** Declares the C++ stream that supports file input and output .

**process.h –** Contains function declarations and macros used in working with threads and processes.

**string.h -** Provides many string handling functions. Arguments are character arrays, or occasionally integers designating a length and/or locations.

**stlib.h -** Defines types and macros needed for the standard I/O routines and stream-level I/O routines .

**ctype.h -** Functions to test characters . Arguments must be an integer whose values is an unsigned char (ASCII 0-128) or EOF(-1).Functions return value true if the character argument meets the conditions.

**conio.h-** Used mostly by MS-DOS compliers to provide console input/output.

**dos.h-** MS-DOS and 8086 specific functions. Contains functions for handling interrupts, delays, producing sound, date and time functions etc.

SOURCE CODE

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* HEADER FILES\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

#include<iostream.h>

#include<conio.h>

#include<stdlib.h>

#include<stdio.h>

#include<fstream.h>

#include<ctype.h>

#include<dos.h>

#include<process.h>

#include<string.h>

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* GLOBAL VARIABLE \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

int ac=50;

int non\_ac=50;

int no\_of\_room=100;

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* STRUCTURE \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

struct hotel

{

int day,year,month;

int no\_of\_person;

int no\_of\_room;

char name[30];

char nationality[20];

int ac;

int room\_no;

int non\_ac;

int no\_of\_day;

char address[20];

}h;

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* WELCOME \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void welcome()

{

getch();

clrscr();

cout<<"\n\n\n\t\t\t\tWELCOME TO PROJECT";

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

cout<<"\n\n\n\tThis project has facility of maintaining the records of hotel";

getch();

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

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* CREATE \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void create()

{

clrscr();

char ch;

ofstream fo("hotel1.dat",ios::app);

cout<<"\n\t\t\nCREATING FILE";

cout<<"\nDate of Arrival:";

cin>>h.day;

cout<<"\nMonth: ";

cin>>h.month;

cout<<"\nYear: ";

cin>>h.year;

cout<<"\nNo\_of\_person: ";

cin>>h.no\_of\_person;

cout<<"\nName: ";

gets(h.name);

cout<<"\nAddress: ";

gets(h.address);

cout<<"\nNationality: ";

gets(h.nationality);

if(no\_of\_room>0)

{

cout<<"\nEnter choice (A for ac & N for non\_ac): ";

cin>>ch;

if(ch=='A')

{

if(ac>0)

{

cout<<"\nENTER ROOM NO: ";

cin>>h.room\_no;

ac=ac-1;

}

no\_of\_room=no\_of\_room-1;

cout<<"\nNow total room available: "<<no\_of\_room;

}

Else

{

if(non\_ac>0)

{

cout<<"\nENTER ROOM NO : ";

cin>>h.room\_no;

non\_ac=non\_ac-1;

}

no\_of\_room=no\_of\_room-1;

cout<<"\nNow total room available: "<<no\_of\_room;

}

}

fo.write((char \*)&h,sizeof(h));

fo.close();

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* INTIAL \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void initial()

{

clrscr();

h.ac=50;

h.no\_of\_room=100;

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* STATUS \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void status()

{

clrscr();

ifstream fi("hotel1.dat",ios::binary|ios::app|ios::in);

cout<<"\n\t\t\tSTATUS";

while(!fi.eof())

{

fi.read((char\*)&h,sizeof(h));

}

fi.close();

cout<<"\n";

cout<<"\n No. of room available in the Hotel : "<<no\_of\_room;

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\* READ \*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void read()

{

clrscr();

ifstream fi("hotel1.dat",ios::binary|ios::app|ios::in);

cout<<"\nPEOPLE STAYING IN THE HOTEL";

while(fi.read((char\*)&h,sizeof(h)))

{

cout<<"\nRoom No:"<<h.room\_no;

cout<<"\nName:"<<h.name;

cout<<"\nAddress:"<<h.address;

cout<<"\nNationality :"<<h.nationality;

cout<<endl;

getch();

}

fi.close();

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* SEARCH \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void search()

{

clrscr();

int f=0;

char n[20];

ifstream fi("hotel1.dat",ios::binary|ios::app|ios::in);

cout<<"\nEnter name to whose record to be search: ";

gets(n);

while(fi.read((char\*)&h,sizeof(h)))

{

if(strcmp(n,h.name)==0)

{

cout<<"\n\t\tRecord FOUND";

cout<<"\n\n";

cout<<"\t\tDetails of record:"<<endl;

cout<<"\n\tName: "<<h.name;

cout<<"\n\tNationality: "<<h.nationality;

cout<<"\n\tDate of Arrival:"<<h.day<<"\t"<<h.month<<"\t"<<h.year;

cout<<"\n\tNo. of person:"<<h.no\_of\_person;

f=1;

break;

}

}

if(f==0)

cout<<"\nRECORD DOES NOT EXISTS :";

fi.close();

getch();

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* MODIFY \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void modify()

{

clrscr();

int a=0;

char n[20];

fstream fo;

fo.open("hotel1.dat",ios::out|ios::in);

cout<<"\t\tMODIFY";

cout<<"\nEnter name of person whose record is to be modify: "; gets(n);

while(fo.read((char\*)&h,sizeof(h)))

{

if(strcmp(n,h.name)==0)

{

long p=fo.tellp()-sizeof(h);

cout<<"\n\tEnter new detail";

cout<<"\nEnter no\_of\_person: ";

cin>>h.no\_of\_person;

cout<<"\nEnter Name: ";

gets(h.name);

cout<<"\nEnter Address: ";

gets(h.address);

cout<<"\nEnter Nationality: ";

gets(h.nationality);

a=1;

fo.seekp(p,ios::beg);

fo.write((char\*)&h,sizeof(h));

break;

}

}

if(a==0)

cout<<"\nEMPTY RECORD";

fo.close();

getch();

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* DELETE \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void delet()

{

clrscr();

int f=0;

char c;

char n[30];

fstream fi;

fi.open("hotel1.dat",ios::in);

fstream fo;

fo.open("new.dat",ios::out);

clrscr();

cout<<"\t\t\tDELETE";

cout<<"\nEnter name of person whose record is to be deleted : ";

gets(n);

while(fi.read((char\*)&h,sizeof(h)))

{

if(strcmp(n,h.name)==0)

{

f=1;

cout<<"\nDETAIL OF PERSON: ";

cout<<"\n NAME :" <<h.name<<"\n";

cout<<"\n NATIONALITY :" <<h.nationality<<"\n";

cout<<"\n ADDRESS :" <<h.address<<"\n";

cout<<"\nDATE OF ARRIVAL : "<<h.day<<"\t"<<h.month<<"\t" <<h.year;no\_of\_room++;

}

else

fo.write((char\*)&h,sizeof(h));

}

fi.close();

fo.close();

if(f==0)

cout<<"\nRECORD DOES NOT EXISTS";

remove("hotel1.dat");

rename("new.dat","hotel1.dat");

getch();

}

/\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* MAIN \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

\*/

void main()

{

clrscr();

welcome();

int c;

char ch;

clrscr();

cout<<"\t\t";

top:

cout<<"\n\n\t\tMAIN MENU\n\n";

cout<<"\n\t\tPress:\n\t\t(1) to Create"

<<"\n\t\t(2) to Check status"

<<"\n\t\t(3) to Delete a record"

<<"\n\t\t(4) to Modify a record"

<<"\n\t\t(5) to Search a record"

<<"\n\t\t(6) to Read all the records"

<<"\n\t\t(7) to Exit";

cout<<"\n\n\n\t\t\t\tEnter your choice: ";

cin>>c;

switch(c)

{

case 1:

create();

break;

case 2:

initial();

status();

break;

case 3:

delet();

break;

case 4:

modify();

break;

case 5:

search();

break;

case 6:

read();

break;

case 7:

clrscr();

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

cout<<"\t\t\t\tPLEASE WAIT..."; cout<<"\n\n\n";

cout<<"\t\t\t\t EXITING";

delay(1500);

exit(0);

default:

clrscr();

cout<<"\n\n\t\t\t\t!!Invalid choice!!";

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

}

cout<<"\n\nWant to continue(Y/N)";

cin>>ch;

if(ch=='y'||ch=='Y')

goto top;

else

exit(0);

getch();

}

OUTPUT

BIBLOGRAPHY

Computer Science Textbook XII

Wikipedia

Arihant C++

Together with C++

Stackoverflow.com

Nullbyte.com

THANK YOU!!!!!!