



Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering

Semester: (Spring, Year:2022), B.Sc. in CSE (Day)

LAB PROJECT PROPOSAL

Course Title: Structured Programming Lab

Course Code: CSE 104

Section:DB

Student Details

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Lab Date : __ 15/5/2022__

Course Teacher's Name : Md. Solaiman Mia__

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<u>Project Proposal Status</u> Marks:
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Comments:	Date:

Introduction

A hotel management system was defined as a system that enabled a hotel or group of hotels to manage front-office capabilities such as booking reservations, guest checkin/checkout, room assignment, managing room rates, and billing. The program we are going to make is provide us information on reserving rooms, book an event, check the features etc. This program is untroublesome as it will serve the admin or user to be updated about the records without any strain and it is favored much by the people involved in the business sector. As we are aware of the busy and hectic schedule of business people, this Hotel management system turns out to be a great relief for them. This program definitely has a wide scope to minimize errors in the making of bills and it also limits the delay of delivering bills to the customers which can include taxes on the basis of their expenditure.

OBJECTIVES/AIMS

1. Provide people seeking hotel rooms with accurate information about available accommodations.
2. To make it easy for customers to make reservation.

3.To make it easy for customers to get their questions answered, lowering barriers to selecting this chain's hotels.

4. To allow staff to easily update information in the system, and have the system inform everyone who needs to know.

5.Allow booking of rooms without errors and without creating conflicts.

IMPLEMENTATION

```
1  #include<stdio.h>
2  #include<conio.h>
3  #include<ctype.h>
4  #include<windows.h>
5  #include<stdlib.h>
6  #include<time.h>
7
8  void add();
9  void list();
10 void edit();
11 void search();
12
13 void setcolor(int ForgC)
14 { WORD wColor;
15  HANDLE hStdOut=GetStdHandle(STD_OUTPUT_HANDLE);
16  CONSOLE_SCREEN_BUFFER_INFO csbi;
17
18  if(GetConsoleScreenBufferInfo(hStdOut,&csbi))
19  {
20      wColor=(csbi.wAttributes & 0xB0)+(ForgC & 0x0B);
21
22      SetConsoleTextAttribute(hStdOut,wColor);
23  }
24 }
25
26 void login()
27 {
28
29     int a=0,i=0;
30     char uname[10],c=' ';
31     char pword[10],code[10];
32     char user[10]="user";
33     char pass[10]="pass";
34     do
35     {
36
37         system("cls");
38
39         printf("\n ***** LOGIN FORM ***** ");
40         printf(" \n                ENTER USERNAME:-");
41         scanf("%s", &uname);
42         printf(" \n                ENTER PASSWORD:-");
43         while(i<10)
44         {
45             pword[i]=getch();
46             c=pword[i];
47             if(c==13) break;
48             else printf("*");
49             i++;
50         }
```

```

49         i++;
50     }
51     pword[i]='\0';
52
53     i=0;
54
55     if(strcmp(uname,user)==0 && strcmp(pword,pass)==0)
56     {
57         printf(" \n\n\n      WELCOME !!!! LOGIN IS SUCCESSFUL");
58
59         break;
60     }
61     else
62     {
63         printf("\n      SORRY !!!! LOGIN IS UNSUCCESSFUL");
64         a++;
65
66         getch();
67
68     }
69 }
70 while(a<=2);
71 if (a>2)
72 {
73     printf("\nSorry you have entered the wrong username and password for four times!!!");
74
75     getch();
76
77 }
78 system("cls");
79 }
80
81 struct CustomerDetails
82 {
83     char roomnumber[10];
84     char name[20];
85     char address[25];
86     char phonenumber[15];
87     char nationality[15];
88     char email[20];
89     char period[10];
90     char arrivaldate[10];
91 }s;
92
93 int main() {
94     int i=0;
95
96     time_t t;
97     time(&t);
98     char customername;
99     char choice;
100
101     system("cls");
102     setcolor(15);
103
104     printf("\t\t*****\n");
105     printf("\t\t*                               *\n");
106     printf("\t\t* ----- *\n");
107     printf("\t\t* WELCOME TO HOTEL MANAGEMENT SYSTEM *\n");
108     printf("\t\t* ----- *\n");
109     printf("\t\t*                               *\n");
110     printf("\t\t*                               *\n");
111     printf("\t\t*                               *\n");
112     printf("\t\t* RAYHAN CHOWDHURY *\n");
113     printf("\t\t* NUM:01878549122 *\n");
114
115     printf("\t\t*****\n\n\n");
116     for(i=0;i<80;i++)
117         printf("-");
118     printf("\nCurrent date and time : %s",ctime(&t));
119     for(i=0;i<80;i++)
120         printf("-");
121     printf("\n Press any key to continue:");
122
123     getch();
124     system("cls");
125     login();
126     system("cls");
127     while (1)
128     {
129         system("cls");
130         setcolor(10);
131         for(i=0;i<80;i++)
132             printf("-");
133         printf("\n\n");
134         printf(" ***** |MAIN MENU| ***** \n");
135         for(i=0;i<80;i++)
136             printf("-");
137         printf("\n\n");
138         setcolor(10);
139         printf("\t\t*Please enter your choice for menu*");
140         printf("\n\n");
141         printf("\n Enter 1 -> Book a room");

```

```

142     printf("\n-----");
143     printf(" \n Enter 2 -> View Customer Record");
144     printf("\n-----");
145     printf(" \n Enter 3 -> Delete Customer Record");
146     printf("\n-----");
147     printf(" \n Enter 4 -> Search Customer Record");
148     printf("\n-----");
149     printf(" \n Enter 5 -> Edit Record");
150     printf("\n-----");
151     printf(" \n Enter 6 -> Exit");
152     printf("\n-----");
153     printf("\n");
154     for(i=0;i<80;i++)
155     printf("-");
156     printf("\nCurrent date and time : %s",ctime(&t));
157     for(i=0;i<80;i++)
158     printf("-");
159
160     choice=getche();
161     choice=toupper(choice);
162     switch(choice)
163     {
164         case '1':
165             add();break;
166         case '2':
167             list();break;
168         case '3':
169             deletel();break;
170         case '4':
171             search();break;
172         case '5':
173             edit();break;
174         case '6':
175             system("cls");
176             printf("\n\n\t *****THANK YOU*****");
177             printf("\n\t FOR TRUSTING OUR SERVICE");
178
179             exit(0);
180             break;
181         default:
182             system("cls");
183             printf("Incorrect Input");
184             printf("\n Press any key to continue");
185             getch();
186     }
187 }
188
189 void add()
190 {
191     FILE *f;
192     char test;
193     f=fopen("add.txt", "a+");
194     if (f==0)
195     {
196         f=fopen("add.txt", "w+");
197         system("cls");
198         printf("Please hold on while we set our database in your computer!!");
199         printf("\n Process completed press any key to continue!! ");
200         getch();
201     }
202     while(1)
203     {
204         system("cls");
205         printf("\n Enter Customer Details:");
206         printf("\n*****");
207         printf("\n Enter Room number:\n");
208         scanf("%s", s.roomnumber);
209         fflush(stdin);
210         printf("Enter Name:\n");
211         scanf("%s", s.name);
212         printf("Enter Address:\n");
213         scanf("%s", s.address);
214         printf("Enter Phone Number:\n");
215         scanf("%s", s.phonenumber);
216         printf("Enter Nationality:\n");
217         scanf("%s", s.nationality);
218         printf("Enter Email:\n");
219         scanf("%s", s.email);
220         printf("Enter Period(\ 'x\ 'days):\n");
221         scanf("%s", &s.period);
222         printf("Enter Arrival date(dd\mm\yyyy):\n");
223         scanf("%s", &s.arrivaldate);
224         fwrite(&s, sizeof(s), 1, f);
225         fflush(stdin);
226         printf("\n\n\t Room is successfully booked!!");
227         printf("\n Press esc key to exit, any other key to add another customer detail:");
228         test=getche();
229         if(test==27)
230             break;
231     }
232 }
233 fclose(f);
234

```

[illegible]

```

333     }
334 }
335 if(flag==1){
336     printf("\n\tRequested Customer could not be found!");
337 }
338 getch();
339 fclose(f);
340 }
341
342 void edit()
343 {
344     FILE *f;
345     int k=1;
346     char roomnumber[20];
347     long int size=sizeof(s);
348     if((f=fopen("add.txt", "r+"))==NULL)
349         exit(0);
350     system("cls");
351     printf("Enter Room number of the customer to edit:\n\n");
352     scanf("%i^\n", roomnumber);
353     fflush(stdin);
354     while(fread(&s, sizeof(s), 1, f)==1)
355     {
356         if(strcmp(s.roomnumber, roomnumber)==0)
357         {
358             k=0;
359             printf("\nEnter Room Number      :");
360             gets(s.roomnumber);
361             printf("\nEnter Name          :");
362             fflush(stdin);
363             scanf("%s", &s.name);
364             printf("\nEnter Address        :");
365             scanf("%s", &s.address);
366             printf("\nEnter Phone number :");
367             scanf("%i", &s.phonenumber);
368             printf("\nEnter Nationality :");
369             scanf("%s", &s.nationality);
370             printf("\nEnter Email :");
371             scanf("%s", &s.email);
372             printf("\nEnter Period :");
373             scanf("%s", &s.period);
374             printf("\nEnter Arrival date :");
375             scanf("%s", &s.arrivaldate);
376             fseek(f, size, SEEK_CUR);
377             fwrite(&s, sizeof(s), 1, f);
378             break;
379         }
380     }
381
382     if(k==1){
383         printf("\n\nTHE RECORD DOESN'T EXIST!!!!");
384         fclose(f);
385         getch();
386     }else{
387         fclose(f);
388         printf("\n\n\t\tYOUR RECORD IS SUCCESSFULLY EDITED!!!");
389         getch();
390     }
391 }

```

OUTPUT

User panel:

```
"C:\Users\User\Desktop\Project proposal\project\HotelMgmt C Updated\Hotel Management System C UPDT\HMSC.exe"
***** |MAIN MENU| *****
*****
*Please enter your choice for menu*:

Enter 1 -> Book a room
-----
Enter 2 -> View Customer Record
-----
Enter 3 -> Delete Customer Record
-----
Enter 4 -> Search Customer Record
-----
Enter 5 -> Edit Record
-----
Enter 6 -> Exit
-----
Current date and time : Wed Apr 20 20:22:36 2022
-----
```

Book a room :

```
"C:\Users\User\Desktop\Project proposal\project\HotelMgmt C Updated\Hotel Management System C UP
Enter Customer Details:
*****
Enter Room number:
101
Enter Name:
rayhan chowdhury
Enter Address:
Enter Phone Number:
01878549122
Enter Nationality:
Bangladeshi
Enter Email:
crayhan42@gmail.com
Enter Period('x'days):
2
Enter Arrival date(dd/mm/yyyy):
4/28/2022

1 Room is successfully booked!!
Press esc key to exit, any other key to add another customer detail:
```


View customer record:

"C:\Users\User\Desktop\Project proposal\project\HotelMgmt C Updated\Hotel Management System C UPDT\HMSC.exe"

ROOM	NAME	ADDRESS	PHONENUMBER	NATIONALITY	EMAIL	PERIOD	ARRIVALDATE
101	rayhan	chowdhury	01878549122	Bangladeshi	crayhan42@gmail.com	2	4/28/2022

Search customer record:

"C:\Users\User\Desktop\Project proposal\project\HotelMgmt C Updated\Hotel M

Enter Room number of the customer to search its details:
101

Record Found

Room Number: 101
Name: rayhan
Address: chowdhury
Phone number: 01878549122
Nationality: Bangladeshi
Email: crayhan42@gmail.com
Period: 2
Arrival date: 4/28/2022

Delete customer record:

"C:\Users\User\Desktop\Project proposal\project\HotelMgmt C Updated\Hotel Management System

Enter the Room Number of the hotel to be deleted from the database:
101

The Customer is successfully removed....

CONCLUSION

Hotel management system now-a-day have the advantage of modernization. Computer have done the work more easy. Computer is playing an important role in management. Reports are made on daily basis for every customer check in or check out which can easily be seen by the management. Hotel management system has also primary purpose is to provide facilities to customers. A software for computers makes the things many times easy, these are made as user friendly and to keep a check and balance in hotel management and accounts as well. So, these things are important.