

RESORT ROOM MANAGEMENT

A course project report submitted in partial fulfilment of the requirement
of

Problem Solving with Programming

By
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INTRODUCTION

About the project:



THEME:

This project RESORT MANAGEMENT provides room booking and edit the customer records. Using this resort manager doesn't have to sit and manage the entire activities on the paper . This system will be so simple and attractive which will make the customer comfortable to use and choose their ideal room.

ABSTRACT:

- **This project aims at creating an resort management system which can be used by customers to reserve rooms .**
- **Users can check the availability of rooms and other facilities.**
- **The users can register and login into the system.**
- **The administrator will know the details of reservations and list of the customers.**
- **Admin will also manage all the things for the resort.**
- **This system provides flexibility of free and fair booking of the rooms.**

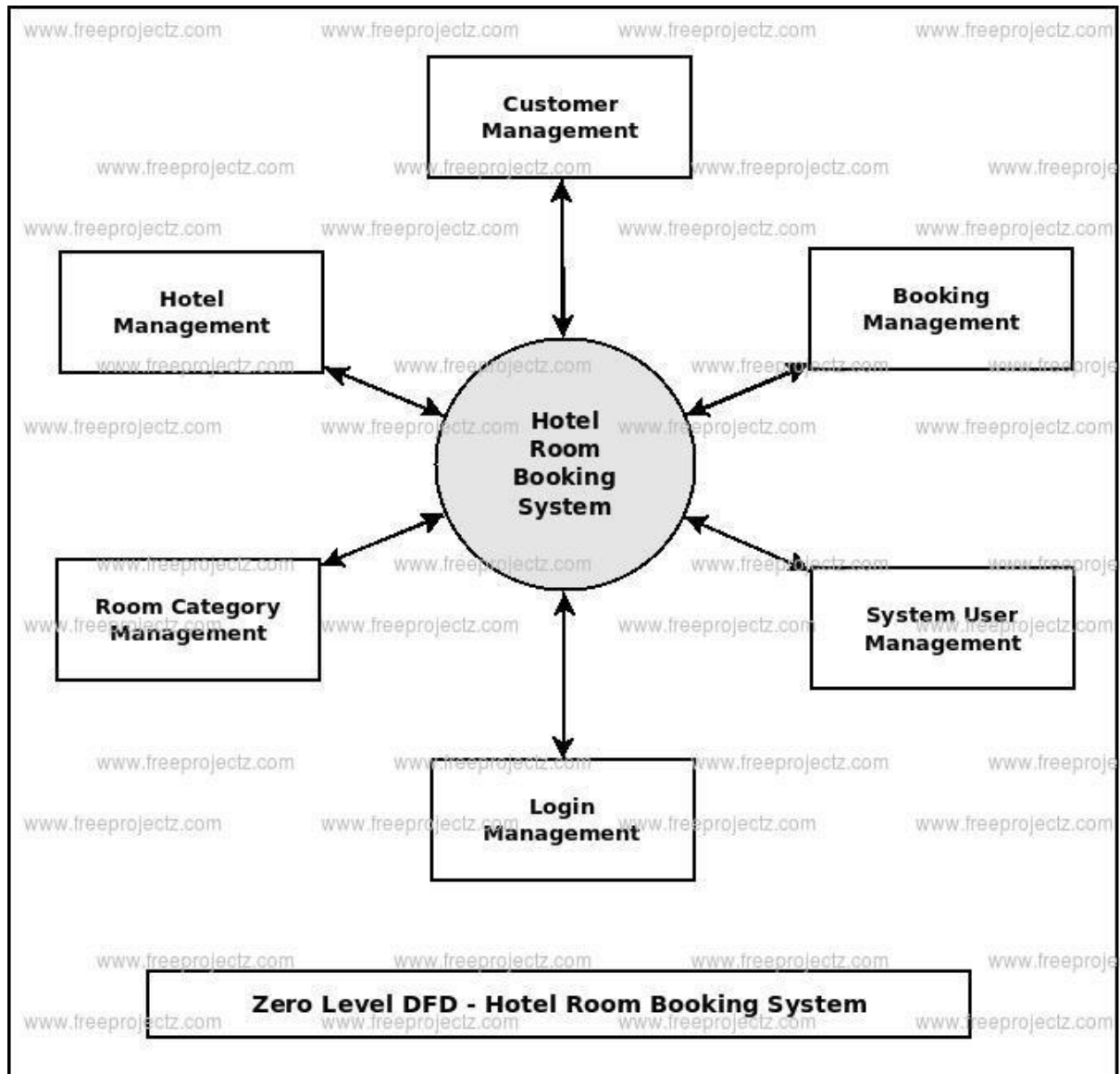
CONCEPTS USED TO DEVELOP THIS

APPLICATIONS:

- **Operators**
- **Conditional statements(if, switch and nested statements)**
- **Looping statements(for, while, do while)**
- **Unconditional jump statements(go to, break and continue)**
- **Arrays**
- **Structures**
- **Files**
- **Pointers**

PROJECT DESCRIPTION

Block diagram:



Source code:

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>

void add(); //FUNCTIONS
void list();
void edit();
void delete1();
void search();

void login()
{
    int a=0,i=0;
    char uname[10],c=' ';
    char pword[10],code[10];
    char user[10]="user";
    char pass[10]="pass";
    do
    {
        system("cls");

        printf("\n ***** LOGIN FORM
        ***** ");
        printf(" \n          ENTER USERNAME:-");
        scanf("%s", &uname);
        printf(" \n          ENTER PASSWORD:-");
        while(i<10)
        {
            pword[i]=getch();
            c=pword[i];
            if(c==13) break;
            else printf("*");
            i++;
        }
        pword[i]='\0';
        i=0;
        if(strcmp(uname,user)==0 && strcmp(pword,pass)==0)
        {
```



```

printf(" \n\n\n    WELCOME !!!! LOGIN IS SUCCESSFUL");

break;
}
else
{
printf("\n    SORRY !!!! LOGIN IS UNSUCCESSFUL");
a++;

getch();

}
}
while(a<=2);
if (a>2)
{
printf("\nSorry you have entered the wrong username and password for four
times!!!");

getch();

}
system("cls");
}

struct CustomerDetails //STRUCTURE DECLARATION
{
char roomnumber[10];
char name[20];
int amount[30];
char address[25];
char phonenumber[15];
char nationality[15];
char email[20];
char period[10];
char arrivaldate[10];
}s;

int main(){ // MAIN FUNCTION
int i=0;

time_t t;
time(&t);

```

```

char customername;
char choice;

system("cls"); // FOR CLEARING SCREEN
printf("-----\n");
printf("|                                     |\n");
printf("|                                     |\n");
printf("| OOOOOO  OOOOOO OOOOOO OOOOOO OOOOOO OOOOOO\n");
printf("O  O OOOOOOO OOOOOO  |\n");
printf("| O  O  O O  O  O  O  O  O  O  O  |\n");
printf("| O OOOOO OOOOOO OOOOO OOOOO  O  O  O O  O O\n");
printf("OOOOO OOOOOO  |\n");
printf("| O O O O O  O  O  O  O O O O  O  O  |\n");
printf("| OOOOOO O  O OOOOOO OOOOOO O  OOOOOO O  O O\n");
printf("OOOOOO OOOOOO  |\n");
printf("|                                     |\n");
printf("-----\n");
printf("\t\t*****\n");
printf("\t\t*\n");
printf("\t\t*-----*\n");
printf("\t\t*  WELCOME TO RK'S RESORT  *\n");
printf("\t\t*-----*\n");
printf("\t\t*\n");
printf("\t\t*\n");
printf("\t\t*\n");
printf("\t\t*  Brought To you by RAJ KUMAR  *\n");
printf("\t\t*  AKASH,ANUROOP,STHIRA  *\n");
printf("\t\t*  CONTACT US:9121438909  *\n");
printf("\t\t*****\n\n");
printf("\t\t\n");
for(i=0;i<80;i++)
printf("-");
printf("\nCurrent date and time : %s",ctime(&t));
for(i=0;i<80;i++)
printf("-");
printf("\n Press any key to continue:");

getch();
system("cls");
login();
system("cls");
while (1) // INFINITE LOOP
{
system("cls");

```

```

for(i=0;i<80;i++)
printf("-");
printf("\n");
printf("          RK's resort          \n");
printf("          \n");
for(i=0;i<80;i++)
printf("-");
printf("\n");

printf("\t\t *Please enter your choice for menu*");
printf("\n\n");
printf(" \n Enter 1 -> Book a room");
printf("\n-----");
printf(" \n Enter 2 -> View Customer Record");
printf("\n-----");
printf(" \n Enter 3 -> Delete Customer Record");
printf("\n-----");
printf(" \n Enter 4 -> Search Customer Record");
printf("\n-----");
printf(" \n Enter 5 -> Edit Record");
printf("\n-----");
printf(" \n Enter 6 -> Exit");
printf("\n-----");
printf("\n");
for(i=0;i<80;i++)
printf("-");
    printf("\nCurrent date and time : %s",ctime(&t));
    for(i=0;i<80;i++)
printf("-");

choice=getche();
choice=toupper(choice);
switch(choice)      // SWITCH STATEMENT
{
case '1':
add();break;
case '2':
list();break;
case '3':
delete1();break;
case '4':
search();break;

```

```

case '5':
edit();break;
case '6':
system("cls");
printf("\n\n\t *****THANK YOU*****");
printf("\n\t FOR TRUSTING OUR SERVICE");
exit(0);
break;
default:
system("cls");
printf("Incorrect Input");
printf("\n Press any key to continue");
getch();
}
}
}

void add()
{
FILE *f;
char test;
f=fopen("add.txt","a+");
if(f==0)
{ f=fopen("add.txt","w+");
system("cls");
printf("Please hold on while we set our database in your computer!!");
printf("\n Process completed press any key to continue!! ");
getch();
}
while(1)
{
system("cls");
printf("\n Enter Customer Details:");
printf("\n*****");
printf("\n Enter Room number:\n");
scanf("\n%s",s.roomnumber);
fflush(stdin);
printf("Enter Name:\n");
scanf("%s",s.name);
printf("Enter Address:\n");
scanf("%s",s.address);
printf("Enter Phone Number:\n");
scanf("%s",s.phonenumber);

```

```

printf("Enter Nationality:\n");
scanf("%s",s.nationality);
printf("Enter Email:\n");
scanf(" %s",s.email);
printf("Enter Period(\x\days):\n");
scanf("%s",&s.period);
printf("Enter Arrival date(dd\\mm\\yyyy):\n");
scanf("%s",&s.arrivaldate);
fwrite(&s,sizeof(s),1,f);
fflush(stdin);
printf("\n\n1 Room is successfully booked!!");
printf("\n Press esc key to exit, any other key to add another customer detail:");
test=getche();
if(test==27)
break;

}
fclose(f);
}

void list()
{
FILE *f;
int i;
if((f=fopen("add.txt","r"))==NULL)
exit(0);
system("cls");
printf("ROOM ");
printf("NAME\t");
printf("\tADDRESS ");
printf("\tPHONENUMBER ");
printf("\tNATIONALITY ");
printf("\tEMAIL ");
printf("\t\t PERIOD ");
printf("\t ARRIVALDATE \n");

for(i=0;i<118;i++)
printf("-");
while(fread(&s,sizeof(s),1,f)==1)
{

printf("\n%s\t%s \t\t%s\t\t%s\t\t%s\t\t%s\t\t%s\t\t%s",s.roomnumber, s.name ,
s.address , s.phonenumber ,s.nationality ,s.email,s.period, s.arrivaldate);

```

```

}
printf("\n");
for(i=0;i<118;i++)
printf("-");

fclose(f);
getch();
}

void delete1()
{
FILE *f,*t;
int i=1;
char roomnumber[20];
if((t=fopen("temp.txt","w"))==NULL)
exit(0);
if((f=fopen("add.txt","r"))==NULL)
exit(0);
system("cls");
printf("Enter the Room Number of the hotel to be deleted from the database:
\n");
fflush(stdin);
scanf("%s",roomnumber);
while(fread(&s,sizeof(s),1,f)==1)
{
if(strcmp(s.roomnumber,roomnumber)==0)
{
i=0;
continue;
}
else
fwrite(&s,sizeof(s),1,t);
}
if(i==1)
{
printf("\n\n Records of Customer in this Room number is not found!!");
getch();
fclose(f);
fclose(t);
main();
}
fclose(f);
fclose(t);
remove("add.txt");

```

```

rename("temp.txt","add.txt");
printf("\n\nThe Customer is successfully removed....");
fclose(f);
fclose(t);
getch();
}

void search()
{
system("cls");
FILE *f;
char roomnumber[20];
int flag=1;
f=fopen("add.txt","r+");
if(f==0)
exit(0);
fflush(stdin);
printf("Enter Room number of the customer to search its details: \n");
scanf("%s", roomnumber);
while(fread(&s,sizeof(s),1,f)==1)
{
if(strcmp(s.roomnumber,roomnumber)==0){
flag=0;
printf("\n\tRecord Found\n ");
printf("\nRoom Number:\t%s",s.roomnumber);
printf("\nName:\t%s",s.name);
printf("\nAddress:\t%s",s.address);
printf("\nPhone number:\t%s",s.phonenumber);
printf("\nNationality:\t%s",s.nationality);
printf("\nEmail:\t%s",s.email);
printf("\nPeriod:\t%s",s.period);
printf("\nArrival date:\t%s",s.arrivaldate);
flag=0;
break;
}
}
if(flag==1){
printf("\n\tRequested Customer could not be found!");
}
getch();
fclose(f);
}

```

```

void edit()
{
FILE *f;
int k=1;
char roomnumber[20];
long int size=sizeof(s);
if((f=fopen("add.txt","r+"))==NULL)
exit(0);
system("cls");
printf("Enter Room number of the customer to edit:\n\n");
scanf("%[^\n]",roomnumber);
fflush(stdin);
while(fread(&s,sizeof(s),1,f)==1)
{
if(strcmp(s.roomnumber,roomnumber)==0)
{
k=0;
printf("\nEnter Room Number   :");
gets(s.roomnumber);
printf("\nEnter Name   :");
fflush(stdin);
scanf("%s",&s.name);
printf("\nEnter Address   :");
scanf("%s",&s.address);
printf("\nEnter Phone number :");
scanf("%f",&s.phonenumber);
printf("\nEnter Nationality :");
scanf("%s",&s.nationality);
printf("\nEnter Email :");
scanf("%s",&s.email);
printf("\nEnter Period :");
scanf("%s",&s.period);
printf("\nEnter Arrival date :");
scanf("%s",&s.arrivaldate);
fseek(f,size,SEEK_CUR);
fwrite(&s,sizeof(s),1,f);
break;
}
}
if(k==1){
printf("\n\nTHE RECORD DOESN'T EXIST!!!!");
}
}

```



```
fclose(f);  
getch();  
}else{  
fclose(f);  
printf("\n\n\tYOUR RECORD IS SUCCESSFULLY EDITED!!!");  
getch();  
}  
}
```

PROJECT IMPLEMENTATION

WORKING:

Main page

```
000000 000000 000000 000000 000000 000000 0 0 0000000 000000
0 0 0 0 0 0 0 0 0 0 0
0 00000 000000 00000 00000 0 0 0 0 0 00000 000000
0 0 0 0 0 0 0 0 0 0 0 0
000000 0 0 000000 000000 0 000000 0 0 0 000000 000000

*****
*                                     *
* -----                           *
*  WELCOME TO  RK'S  RESORT          *
* -----                           *
*                                     *
*                                     *
*  Brought To you by RAJ KUMAR      *
*  AKASH,ANUROOP,STHIRA             *
*  CONTACT US:9121438909            *
*                                     *
*****

Current date and time : Tue Jul 05 21:41:18 2022

Press any key to continue:
```

LOGIN SCREEN WINDOW:

When you start the project from any compiler or by double-clicking the executable.exe file, you'll see the screen shown below is login screen window.

```
C:\Users\Adones\Downloads\Hotel Management System Project In C Source Code\Hotel Management System Project In C\HMSC.exe

***** LOGIN FORM *****
ENTER USERNAME:-user

ENTER PASSWORD:-****
```

MENU SCREEN WINDOW:

The menu function is used to display a menu where a user may do various operations, which are discussed in more detail below.

```
-----
                    RK's resort
-----
                *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 : Tue Jul 05 21:41:18 2022
-----
```

BOOK A ROOM:

The BOOK A ROOM function is used to create a new booking for the customer, which records information such as the room number, name, address, phone number, nationality, email, period of days, arrival date,

```
Enter Customer Details:
*****
Enter Room number:
143
Enter Name:
RAJU
Enter Address:
WARANGAL
Enter Phone Number:
9121438909
Enter Nationality:
INDIAN
Enter Email:
rajkumarpeddapelly1020@gmail.com
Enter Period('x'days):
5
Enter Arrival date(dd\mm\yyyy):
5\07\22

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

VIEW CUSTOMER RECORD:

The VIEW CUSTOMER RECORD function is used to view customer record information.

ROOM	NAME	ADDRESS	PHONENUMBER	NATIONALITY	EMAIL	PERIOD	ARRIVALDATE
143	raju	warangal	9121438	indian	rajkumar@gmail.com	4	6\07\22

DELETE CUSTOMER RECORD:

The DELETE CUSTOMER RECORD function is used to delete customer record information.

```
Enter the Room Number of the hotel to be deleted from the database:
143
```

```
The Customer is successfully removed....
```

SEARCH CUSTOMER RECORD:

The SEARCH CUSTOMER RECORD function is used to search customer record information.

```
Enter Room number of the customer to search its details:  
145
```

Record Found

```
Room Number:    145  
Name:    raju  
Address:    warangal  
Phone number:    çøP983838  
Nationality:    indian  
Email:    raju@gmail.com  
Period: 3  
Arrival date:    23\07\22
```

EDIT RECORD

The EDIT CUSTOMER RECORD function is used to update customer record information.

```
Enter Room number of the customer to edit:
143
Enter Room Number      :145
Enter Name             :raju
Enter Address          :warangal
Enter Phone number     :9121438909
Enter Nationality      :indian
Enter Email            :raju@gmail.com
Enter Period           :3
Enter Arrival date     :23\07\22

YOUR RECORD IS SUCCESSFULLY EDITED!!!
```

ADVANTAGES

1. Saves time for customers and quickly reserving all the facility of the resort.
2. The ability to book the rooms anytime.
3. Provides the information about the resort facilities.
4. Very secure.

5. User friendly.
6. No convenience fee.
7. Total features of the resort are available.
8. Direct communication with the resort faculty.

CONCLUSION

1. The project aims at reducing paper work & provide multiple facilities to the user with less efforts and accessing the portal according to the choice & availability.
2. Thus we have proposed RESORT MANAGEMENT SYSTEM.