ABSTRACT

Hotel Management System is an ideal software solution for Hospitality Industry that can be used at hotels, resorts, lodges, hostel, military guest houses, ranch, and suites. Hotel Management System is a comprehensive software suite consisting of integrated modules for various aspects of hotel management.

This software designed to make easy for hotels to keep a track record of availability of rooms, features of rooms, check in date, no of days stay in hotel by the customer, customer details like name, age, room allotment, services like restaurant, features of rooms, and billing.

It is simple to understand and can be used by anyone who is not even familiar with hotel management system.it is user friendly and just asks the user to follow step by step operations by giving easy to follow opitions.it is fast and perform many operations for hotels.

The goal of this project is to design and develop hotel management system to reduce the manual work like checking the availability of rooms manually and billing manually difficult some times and mistakes may happens so by using c language we can easily reduce manually work and mistakes and records will be safe from tsunami, free accident.

The hotel management system helps you increase revenue and customer satisfaction by creating a better and stronger link between your property business and your customers and partners.

<u>Algorithm</u>

Step 1: start

Step 2: enter the time customer entered

Step 3: print yes room allocation can be done
      If t>0 and t<9
  3.1   else if
      t>=9 && t<=12
     print Yes, we will try to allocate Room
  3.2   else if
      t>12 && t<=14
      print It's lunch time, Room allocation is done after lunch.
  3.3   else if
     t>14 && t<=20
     print Yes, we will try to allocate Room after lunch;
  3.4   else if
     t>20 && t<=21
     print It's dinner time, Room allocation is done after dinner
  3.5   else if
     t>21 && t<=23
     print Yes, we will try to allocate Room after dinner.
  3.6   else
     print Invalid Format
Step 4: select the features of room

  4.1 If 1
   Print two beds
   amount per day =850\-
  4.2 else if 2
   Print one bed with sofa
   amount per day =500\-
  4.3 else if 3
    Print two beds with food
    amount per day =1000\-
  4.4 else if 4
    Print extra bed and food
  amount per day =1500\-
  4.5 else if 5
    Print two beds with extra service
    amount per day =3000\-
Step 5 : if ch =1
    Print room is allocated

5.1 else
   Print room is not allocated and go to step 11

Step 6: enter customer details
   Name of the customer, age of customer

Step 7: enter the hotel room allocated by hotel
   7.1   If your selection=1
      Print double bedroom- two beds
      amount per day=850\-
   7.2   else if your selection=2
      Print single bedroom- one bed and sofa
      amount per day =500\-
   7.3   else if your selection = 3
      two beds with food
      amount per day =1000\-
   7.4   else if your selection=4
      two beds with extra bed and food
      amount per day =1500\-
   7.5   else if your selection= 5
      Print two beds with extra service
      amount per day =3000\-
Step 8 : enter restaurant bill

Step 9 : enter no of days stay in hotel

Step 10: total billing

Step 11:stop

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INTRODUCTION

C is a general-purpose, procedural computer programming language supporting structured programming, lexical variable scope and recursion, with a static type system. during 1980's c gradually gained popularity.it has become one of the mostly used programming languages.as of 2020 c is most popular language.

STRUCTURES-structure is an user defined datatype in c language which allows us to combine data of different types together. structure helps to construct a complex data type which is more meaningful.

Structure is somewhat similar to an array, but in array holds data of similar type only. but in structure, data is stored in the form of records.

It is defined by keyword struct.

BASIC MODULES:

1.get availability: check whether the room is available or not

2. features of room: mention all features of room available in hotel

3. room allocation: enter the time customer entered

4. show customer details: add the details of customer name, age.

5.room deallocation: mention no of days stay in hostel and delete customer data.

6.restaraunt: billing the customer for food, water.

7. billing: adding total bill of the customer.

AIM

To develop a hotel management system code using some modules

ADVANTAGES & DISADVANTAGES

Advantages:-

1. Hotel management

2. Security hotel and customer information

3. Reduce manual work

4. Reduce complications during billing

5. And loss of documents related to hotel.

Disadvantages:-

There are no disadvantages.

Future Enhancements:- Can be extended by files.

SYSTEM REQUIREMENTS

➢ **SOFTWARE REQUIREMENTS:**
The major software requirements of the project are as follows:
Language   :   C Programing
Operating system**:** Windows 10

➢ **HARDWARE REQUIREMENTS:**

The hardware requirements that map towards the software are as follows:

RAG:8GB

Processor : Intel core i5

IMPLEMENTATION

```c
#include <stdio.h>
void myfun(int t);
void myfun2();
void myfun3(int ch);
void myfun4(char name[10],int age);
void myfun5(int urselection);
struct hotel
{
 int t;
};
int main()
{
  int t;
  struct hotel h;
  int age;
  char name[10];
  int n;
  int ph;
  char p[10];
  printf("                 HOTEL MANAGEMENT");
  printf("\n'One          team,One dream'\n");
  printf("Enter    the    time    that customer arrived :\n");
  scanf("%d",&t);
  myfun(t);
  myfun2();
  int ch;
```

```c
  printf("Enter 1 for room allocation or Enter 0 for not alloacting the room \n");
  scanf("%d",&ch);
  myfun3(ch);
  printf("Customer Details :\n");
  printf("Enter name :\n");
  scanf("%s",name);
  printf("Enter age :\n");
  scanf("%d",&age);
  myfun4(name,age);
  int urselection;
  printf("Select the room that Hotel allotted                  :\n1.Double bedroom\n2.Single bedroom\n3.Deluxe\n4.Super deluxe\n5.Luxury\n");
  scanf("%d",&urselection);
  myfun5(urselection);
  return 0;
}
void myfun(int t)
{
  if(t>0 && t<9)
  printf("Yes, Room allocation can be done.\n");
  else if(t>=9 && t<=12)
    printf("Yes, Room allocation can be done.\n");
  else if(t>12 && t<=14)
    printf("It's lunch time, Room allocation is done after lunch.\n");
  else if(t>14 && t<=20)
    printf("Yes, Room allocation can be done.\n");
```

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```c
   else if(t>20 && t<=21)
     printf("It's dinner time, Room
allocation is done after dinner.\n");
   else if(t>21 && t<=23)
     printf("Yes, Room allocation
can be done.\n");
   else
     printf("Invalid Format\n");
}
void myfun2()
{
   int choice;
   printf("Select any room from
below list :\n");
   printf("1.Double
bedroom\n2.Single
bedroom\n3.Deluxe\n4.Super
deluxe\n5.Luxury\n");
   scanf("%d",&choice);
   switch(choice)
   {
     case 1:
     printf("two beds \n amount per
day = Rs.850/-\n");
     break;
     case 2:
     printf("one bed with sofa \n
amount per day = Rs.500/-\n");
     break;
     case 3:
     printf("two beds with food \n
amount per day = Rs.1000/-\n");
     break;
     case 4:
```

```c
    printf("two beds with extra bed
and  food  \n amount  per day  =
Rs.1500/-\n");
    break;
    case 5:
    printf("two  beds  with  extra
service  \n  amount  per  day  =
Rs.3000\n");

  }
}
void myfun3(int ch)
{
  if(ch == 1)
  {
    printf("Room is allotted\n");
  }
  else
  {
  printf("Room is not allotted\n");
  }
}
void myfun4(char name[10],int age)
{
 printf("Name   of   the   customer
:%s\n",name);
 printf("Age   of   the   customer
:%d\n",age);
}
void myfun5(int urselection)
{
  int bill;
  printf("Enter restaurant bill :\n");
    scanf("%d",&bill);
    int days;
```

```c
    printf("Enter  number  of  days
stayed in hotel room :\n");
    scanf("%d",&days);
  if(urselection==1)
  {
    days= 850*days;
    printf("Total    hotel    bill    :
%d\n",days);
    printf("Total stay bill : %d + %d
= %d",days,bill,bill + days);
  }
  else if(urselection==2)
  {
    days= 500*days;
     printf("Total    hotel    bill    :
%d\n",days);
    printf("Total stay bill : %d + %d
= %d",days,bill,bill + days);
  }
  else if(urselection==3)
  {
    days= 1000*days;
    printf("Total    hotel    bill    :
%d\n",days);
    printf("Total stay bill : %d + %d
= %d",days,bill,bill + days);
  }
  else if(urselection==4)
  {
    days= 1500*days;
    printf("Total    hotel    bill    :
%d\n",days);
    printf("Total stay bill : %d + %d
= %d",days,bill,bill + days);
  }
```

```c
    else if(urselection==5)
    {
      days= 3000*days;
      printf("Total    hotel    bill    :
%d\n",days);
      printf("Total stay bill : %d + %d
= %d",days,bill,bill + days);
    }
}
```

OUTPUT/SCREENSHOTS

```
D:\work documents\CTD\Program Codes\g.exe

 HOTEL MANAGEMENT
'One team,One dream'
Enter the time that customer arrived :
3
Yes, Room allocation can be done.
Select any room from below list :
1.Double bedroom
2.Single bedroom
3.Deluxe
4.Super deluxe
5.Luxury
4
superdeluxe- two beds with extra bed and food
 amount per day = Rs.1500/-
enter 1 for room is allocated and 0 for room is not allocated1
Room is allotted
Customer Details :
Enter name :
KLU
Enter age :
20
Name of the customer :KLU
Age of the customer :20
Select the room that Hotel allotted :
1.Double bedroom
2.Single bedroom
3.Deluxe
4.Super deluxe
5.Luxury
4
Enter restaurant bill :
5420
Enter number of days stayed in hotel room :
3
Total hotel bill : 4500
Total stay bill : 4500 + 5420 = 9920
--------------------------------
Process exited after 73.94 seconds with return value 0
Press any key to continue . . .
```

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<u>CONCLUSION</u>

It is simple to understand and can be used by anyone who is not even familiar with hotel management system.it is user friendly and just asks the user to follow step by step operations by giving easy to follow opitions.it is fast and perform many operations for hotels and to reduce the manual work like checking the availability of rooms manually and billing manually difficult some times and mistakes may happens so by using c language we can easily reduce manually work and mistakes and records will be safe from tsunami, free accident.

The hotel management system helps you increase revenue and customer satisfaction by creating a better and stronger link between your property business and your customers and partners.