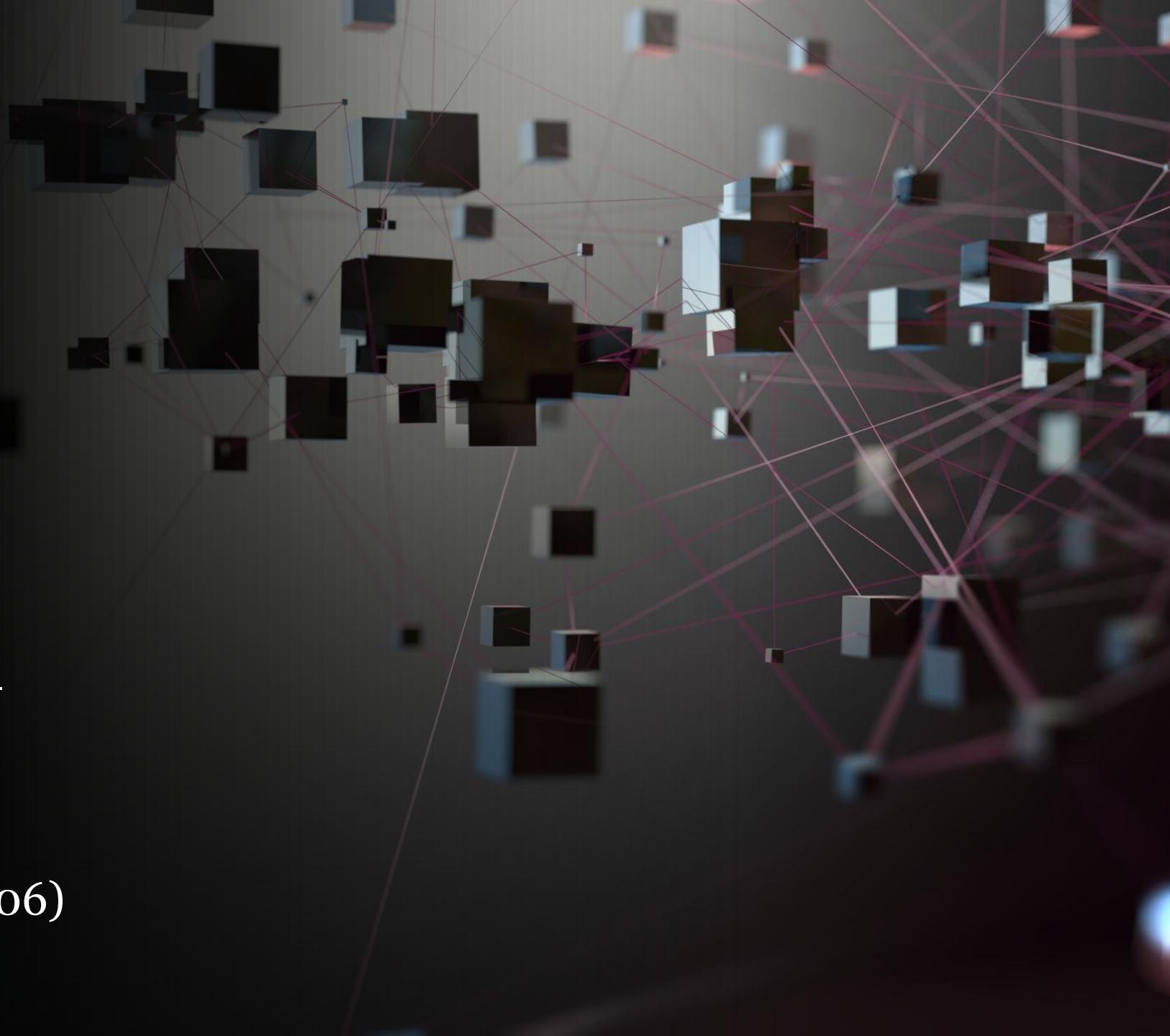




PIC MINI PROJECT

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HOTEL MANAGEMENT SYSTEM

INTRODUCTION

- Hotel Management System is all about organizing and managing the Hotel and its billing system. It involves allocating rooms to the customer according to availability, deallocation, displaying features of the rooms, a restaurant menu to order food.
- A hotel management software helps the receptionist in managing allocation and billing in a better way. It helps the user to keep track of customer, rooms available. It also displays the features of different types of rooms.
- In the Hotel Management Project, you can enter record of the customer and delete it when they checkout. It also has a restaurant menu for the customer to order food from.

BENEFITS OF A HOTEL MANAGEMENT SYSTEM



Manage/organise hotel



Check in and check out customers



Stores record easily



Has an added restaurant menu for the customer to order food



Adds the food cost into the bill automatically

BASIC INFORMATION

Our PIC mini-project “Hotel Management System in C” is a console application using C programming language. This project is compiled in Atom and Code Blocks with GCC compiler. We used GitHub to coordinate amongst ourselves. In this console application, user can add and delete customer info, see customer list, generate bill, order food through inbuilt menu. It is a menu driven program which can perform multiple tasks from displaying room features to check in and check out.





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AIM OF THE CODE

To write a menu driven program in C that checks in the customer and allocates a room. The menu options are:

- Check availability
- Features of a room
- Display customer details
- Restaurant menu
- Room deallocation

OBJECTIVE OF THE PROJECT

The main objective of this project is that it is user friendly and requires less maintenance. It has low level of complexity and high level of flexibility. Moreover, easy availability and low-cost requirements for hardware and software makes the system effortless to use. It also handles simple functions in a hotel and keeps track of all the details of the customer and rooms available.

PROBLEM STATEMENT

Problem Definition

Develop a program for the hotel management system. This program will be able to execute to a software which can check in customers, allocate rooms to them, check them out and calculate their bill.



HOTEL BILL	
Room No:	
Guest Name:	
Address:	
Reg. No:	
Services	Charges
Accommodation	
Breakfast	
Afternoon Tea	
Other	
Total Amount	
THANK YOU FOR YOUR CUSTOM	



Input Specifications

- Is there an availability of rooms?
- What type of rooms are available?
- What are the different features of each type of room?
- What is the difference in charges of the various room types?
- How many rooms of each type are there?
- What are the details and credentials of the customer?
- How many members will be staying in the room?
- What is the duration of their stay?
- What is the room number assigned to them?



Output Specifications

- What charges will be included in the bill during check out?
- Will the restaurant charges be paid differently?
- What are the added charges if customer demands an additional bed?



Special Processing

- If there are extra members, then what is the extra charge that the customer must pay?
- What is the restaurant menu?
- What are the food charges in the restaurant?
- What food does the customer want to order?



FUNCTION PROTOTYPES USED

- **void startPage () :** This function prints the introduction for the hotel. It prints information about the hotel's address and amenities like parking space, free internet service, restaurant, etc.
- **void getAvailability () :** This function primarily checks which rooms are unallocated to customer and sets the availability accordingly. This function also sets the type of the room in the system for first time the program is run.
- **void printAvailability () :** This function prints the information about all the rooms in the hotel. It prints information like type of room, its daily rate, whether it is allocated to any customer or not, and if it is allocated then the name of the customer to whom it has been allocated.
- **void printRoomFeature () :** This function prints the information about the amenities in a selected type of room.

- **void checkIn ()** : This function accepts the hotel booking for a new customer. It accepts data about the customer like their name, nationality, duration of stay, number of members staying in the room they will be booking and the type of room they will be staying in.
- **void printCustInfo ()** : This function accepts the room number input and prints the details of the customer which has currently booked that room. If no customer has booked that room, the respective response is given.
- **void restaurant ()** : This function is the billing software for running a restaurant in the hotel. It has a menu, from which the customer can choose as many items as they want. The room number for the customer is entered. This generates a bill which can be shown to the customer and the expenses are added to the final bill of the customer.
- **void checkOut ()** : This function accepts the room number of the customer that wants to check out. Their bill amount is calculated and printed, and the room gets unallocated.

USES OF THE PROJECT

This hotel management program is useful in many ways:

- **Increases Efficiency:** A hotel management system enhances the efficiency of the hotel manager and of the customers. A good hotel management software enables the manager to check in, check out and cater to the needs of the customer easily.
- **Cost Reduction:** it reduces the cost of managing the hotel as less staff is required to keep track of all the records. No written data is needed.
- **Saves Time:** time is of essence to everyone. This program can easily record and manage customer data and thus be useful in saving time.
- **Enhances Presentation:** a famous hotel is always up-to-date with technology. Thus, good managing software is necessary for the smooth functioning of a hotel. It can also be an added feature of the hotel.

OUTPUT PICTURES

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C:\prachi\ENG_F\codeblocks\miniproject\bin\Debug\miniproject.exe

Near BSF Chowk, Netaji Subhash Chandra Bose Road, Lonavala City,
Maharashtra 436772, INDIA

Ph. No.:022-28537229

Hotel Rosemund Inn is one of the newest Hotel in Lonavala. The Hotel is
equipped with all the general amenities and facilities that go
along with memorable stay. Set amidst beautifully landscaped gardens,
it proves to be a ideal dream destination for perceptive traveller.

The Hotel have well furnished rooms along with rooms providing pleasant
views of the city. The hotel satisfies the needs of business as well
as the leisure traveller. All the rooms at the thotel are furnished
beautifully. All the rooms are fitted with amenities.

AMENITIES ......

1. 100% Power backup.
2. Automatic lift.
3. Ample parking space.
4. Round the clock security.
5. Running hot and cold water.
6. Free internet service.
7. 24 hours room service.
8. Laundry service.

Press any character to continue:

Choose a category:
1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Restaurant
6. Room Deallocation
7. Exit

Enter your choice: -
```

```
C:\prachi\ENG_F\codeblocks\miniproject\bin\Debug\miniproject.exe

Choose a category:
1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Restaurant
6. Room Deallocation
7. Exit

Enter your choice: 2

Choose the room type:
1. Sp. Delux
2. Delux
3. General
4. Couple
5. C. Delux
2

Room number      >>>2

Advance          >>>500

FEATURES OF THIS ROOM
-----
Room Type        >>> Delux
Room charges     >>>Rs.1000 per day
1. Bed            >>>    2
2.Capacity       >>>    5
-----
ADDITIONAL FEATURES
-----
1.A/C available
2.Geyser available
3.TV available
-----
NOTE :- Extra bed will cost Rs.50 per bed

Do you want to continue:
```



C:\prachi\ENG_FY\codeblocks\miniproject\bin\Debug\miniproject.exe

Enter your choice: 1

ROOM AVAILABILITY

Room No	Type	Charge	Availability	Cust_Name	Period
1	Sp Dlx	1500	Y	NA	0
2	Dlx	1000	Y	NA	0
3	Gen	750	Y	NA	0
4	Couple	1000	Y	NA	0
5	C Dlx	1500	Y	NA	0

Do you want to continue:y

Choose a category:

1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Restaurant
6. Room Deallocation
7. Exit

Enter your choice: 3

ROOM AVAILABILITY

Room No	Type	Charge	Availability	Cust_Name	Period
1	Sp Dlx	1500	Y	NA	0
2	Dlx	1000	Y	NA	0
3	Gen	750	Y	NA	0
4	Couple	1000	Y	NA	0
5	C Dlx	1500	Y	NA	0

Enter the room number in which you want to stay:4

Enter Name of customer :sunil chauhan

Enter nationality :indian

Enter duration of stay(in days) :6

Enter number of member staying in the room :2

Room is allocated to sunil chauhan for 6 days.

Do you want to continue:



Type here to search



Do you want to continue:y

- Choose a category:
1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Restaurant
6. Room Deallocation
7. Exit

Enter your choice: 4

Enter the room number :5

Room No :5
Customer Name :ansh dagha
Customer Id :2
Period :10
Nationality :indian
No of members :0

Do you want to continue:-

C:\prachi\ENG_FY\codeblocks\miniproject\bin\Debug\miniproject.exe

Enter your choice: 5

MENU CARD

Room No :5
Customer Name :ansh dagha
Customer Id :2
Period :10
Nationality :indian
No of members :0

Do you want to continue:-

1	VEGETARIAN	
2	SHAHİ PANEER	245
3	KADAI PANEER	245
4	CHEESE KORMA	245
5	MALAI KOFTA	245
6	MATAR PANEER	240
7	PALAK PANEER	240
8	MIX VEG.	240
9	ALOO GOBI	240
10	CHANA MASALA	235
11	MATAR MUSHROOM	250
12	RAJMA MAKHANI	235
13	DAL MAKHANI	235
14	MIXED RAITA	220
15	BUNDI RAITA	215
16	PINEAPPLE RAITA	230
	MUSHROOM PANEER	250

17	MUTTON	
18	MUTTON MASALA	250
19	MUTTON MUGHLAI	250
20	MUTTON KORMA	250
21	MUTTON DO PYAZA	250
22	MUTTON SAGH	250
23	MUTTON DAHI	250
24	MUTTON ROGAN JOSH	255
25	MUTTON CURRY	245
26	KADAI MUTTON	245
27	KEEMA LEVER	245
28	KEEMA MATAR	245
29	KEEMA EGG	240
	EGG CURRY	240

30	CHICKEN	
31	BUTTER CHICKEN	360
32	BUTTER CHICKEN(1/2)	290
33	KADAI CHICKEN	360
34	KADAI CHICKEN(1/2)	295
35	CHICKEN MUGHLAI	360
36	CHICKEN MUGHLAI(1/2)	290
	CHICKEN MASALA	360



15:50
30-04-2020
6

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35	CHICKEN MUGHLAI(1/2)	290
36	CHICKEN MASALA	360
37	CHICKEN MASALA(1/2)	290
38	CHICKEN MASALA(1/4)	250
39	CHICKEN SAGH	360
40	CHICKEN SAGH(1/2)	250
41	CHICKEN KORMA	370
42	CHICKEN KORMA(1/2)	290
43	CHICKEN DO PYAZA	360
44	CHICKEN DO PYAZA(1/2)	290
45	FISH CURRY	250
46	CHICKEN CURRY	250
47	CHICKEN CURRY(1/2)	280
48	CHICKEN CURRY(1/4)	245
49	CHILLI CHICKEN	290

BAR-BE-QUE

50	TANDOORI ALOO	235
51	CHICKEN TIKKA	265
52	SEEKH KABAB	240
53	FISH TIKKA	290
54	CHICKEN TANDOORI	300
55	CHICKEN TANDOORI(1/2)	256
56	PANEER TIKKA	240
57	CHICKEN SEEKH KABAB	265
58	CHICKEN HARA KABAB	270
59	CHICKEN BIRYANI	255
60	MUTTON BIRYANI	255
61	PANEER PULAO	240
62	VEG.PULAO	240
63	JEERA RICE	235
64	STEAMED RICE	220
65	RUMALI ROTI	25

ROTI-NAN-PARANTHA

66	ROTI	30
67	NAN	25
68	ALOO NAN	30
69	PANEER NAN	35
70	KEEMA NAN	35
71	PARANTHA	25
72	ALOO PARANTHA	30
73	PANEER PARANTHA	35
74	PUDINA PARANTHA	25
75	BUTTER NAN	35
76	LACHCHA PARANTHA	25
77	MISSI ROTI	25
78	KHASTA ROTI	30

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77	MISSI ROTI	25
78	KHASTA ROTI	30
79	VEG.BURGER	100
80	PANEER BURGER	105
81	CHEESE SANDWICH	105
82	VEG.PATTI	100
83	CHICKEN PATTI	105

BEVERAGES

84	TEA	100
85	COFFEE	105
86	COLD COFFEE	125
87	PINEAPPLE	105
88	STRAWBERRY	105
89	CHOCOLATE	100
90	BLACK FOREST	105
91	DOUBLE STORIED	110
92	TRIPLE STORIED	115

ICE-CREAMS

93	SOFT CONE	100
94	VANILLA	100
95	STRAWBERRY	100
96	CHOCOLATE	105
97	CHOCO CHIPS	105
98	MANGO	105
99	TUTTI FRUITY	105
100	LICHI	125
101	PISTA BADAM	105
102	CHOCOLATE PISTA BADAM	120
103	CHOCO DIP	120

PRESS 0 TO GO BACK TO MENU CARD
PRESS 1 TO CONTINUE -

Type here to search



```
C:\prachi\ENG_FY\codeblocks\miniproject\bin\Debug\miniproject.exe
83          CHICKEN PATTI      105

BEVERAGES
84          TEA      100
85          COFFEE   105
86          COLD COFFEE    125
87          PINEAPPLE     105
88          STRAWBERRY    105
89          CHOCOLATE     100
90          BLACK FOREST   105
91          DOUBLE STORIED  110
92          TRIPLE STORIED  115

ICE-CREAMS
93          SOFT CONE     100
94          VANILLA      100
95          STRAWBERRY    100
96          CHOCOLATE    105
97          CHOCO CHIPS   105
98          MANGO       105
99          TUTTI FRUITY  105
100         LICHI        125
101         PISTA BADAM   105
102         CHOCOLATE PISTA BADAM 120
103         CHOCO DIP     120

PRESS 0 TO GO BACK TO MENU CARD
PRESS 1 TO CONTINUE 1
ENTER THE FOOD CODE YOU WANT TO HAVE :: 85
DO YOU WANT MORE(Y/N) :: y
ENTER THE FOOD CODE YOU WANT TO HAVE :: 11
DO YOU WANT MORE(Y/N) :: y
ENTER THE FOOD CODE YOU WANT TO HAVE :: 69
DO YOU WANT MORE(Y/N) :: n
Enter your room number:5

Enter your name:ansh dagha
COFFEE      105
RAJMA MAKHANI 235
PANEER NAN   35
TOTAL       375

Do you want to continue:
```



C:\prachi\ENG_FY\codeblocks\miniproject\bin\Debug\miniproject.exe

Choose a category:
1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Restaurant
6. Room Deallocation
7. Exit

Enter your choice: 6

Enter the room number:5

Are you sure you want to deallocate this room? (1 for yes/0 for no) : 1

Room number 5 is deallocated.....

Your total bill is 15000

Thanks for staying in this hotel!

Do you want to continue:y

Choose a category:
1. Get availability
2. Features of room
3. Room allocation
4. Show customer details
5. Restaurant
6. Room Deallocation
7. Exit

Enter your choice: 6

Enter the room number:4

Are you sure you want to deallocate this room? (1 for yes/0 for no) : 1

Room number 4 is deallocated.....

Your total bill is 6000

Thanks for staying in this hotel!

Do you want to continue:



CONCLUSION

Thus, our project Hotel Management System has been completed successfully and we have learnt to implement structures, arrays, strings and control structures to make an application which is efficient and easy to use. It also has varied options which can be utilised by the user to manage day to day tasks.



A 3D rendering of a complex circuit board. The board is primarily blue with gold-colored conductive traces and capacitors. It has a high density of components and a complex, layered structure.

THANK YOU!