

N.B.K.R INSTITUTE OF SCIENCE AND TECHNOLOGY

TOPIC

HOTEL ROOM BOOKING MANAGEMENT SYSTEM

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PRESENTATION BY

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INTRODUCTION:

- TITLE:HOTEL ROOM BOOKING MANAGEMENT SYSTEM.
- EFFICIENT MANAGEMENT OF HOTEL ROOMS.
- TO IMPROVE CUSTOMER SATISFACTION.

* IN THIS HOTEL HAS :

- * BOOK ROOM
- * CANCEL BOOKING
- * DISPLAY ROOMS



WELCOME TO KARP HOTEL

- WE ARE INTRODUCING THAT
 - * TO BOOK A ROOM
 - * CANCEL THE ROOM
 - * DISPLAY THE ALL AVAILABLE ROOMS
 - * ENTER THE GUEST NAME
 - * ENTER THE ROOM NUMBER
 - * BOOK AND ENJOYING THE SERVICE



```
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main.c
56 int numRooms;
57 printf("Enter the number of rooms: ");
58 scanf("%d", &numRooms);
59
60 Room rooms[numRooms];
61 for (int i = 0; i < numRooms; i++) {
62     rooms[i].roomNumber = 0;
63     rooms[i].guestName = "";
64     rooms[i].isBooked = 0;
65 }
66
67 // Function to display all rooms
68 void displayRooms(Room rooms[], int numRooms) {
69     for (int i = 0; i < numRooms; i++) {
70         if (rooms[i].isBooked == 0) {
71             printf("Room %d: Available\n", rooms[i].roomNumber);
72         } else {
73             printf("Room %d: Booked by %s\n", rooms[i].roomNumber, rooms[i].guestName);
74         }
75     }
76 }
77
78 // Function to book a room
79 void bookRoom(Room rooms[], int numRooms, int roomNumber, char* guestName) {
80     if (roomNumber >= 1 && roomNumber <= numRooms) {
81         if (rooms[roomNumber - 1].isBooked == 0) {
82             rooms[roomNumber - 1].isBooked = 1;
83             strcpy(rooms[roomNumber - 1].guestName, guestName);
84             printf("Room %d booked successfully.\n", roomNumber);
85         } else {
86             printf("Room %d is already booked.\n", roomNumber);
87         }
88     } else {
89         printf("Invalid room number.\n");
90     }
91 }
92
93 int main() {
94     displayRooms(rooms, numRooms);
95     int choice;
96     while (1) {
97         printf("\nHotel Room Booking System\n");
98         printf("1. Display Rooms\n");
99         printf("2. Book Room\n");
100        printf("3. Cancel Booking\n");
101        printf("4. Exit\n");
102        printf("Enter your choice: ");
103        scanf("%d", &choice);
104        switch (choice) {
105            case 1:
106                displayRooms(rooms, numRooms);
107                break;
108            case 2:
109                printf("Enter room number: ");
110                int roomNumber;
111                scanf("%d", &roomNumber);
112                printf("Enter guest name: ");
113                char guestName[50];
114                scanf("%s", guestName);
115                bookRoom(rooms, numRooms, roomNumber, guestName);
116                break;
117            case 3:
118                printf("Room 1 booked successfully.\n");
119                break;
120            case 4:
121                return 0;
122            default:
123                printf("Invalid choice.\n");
124        }
125    }
126 }
```

Enter the number of rooms: 50

Hotel Room Booking System
1. Display Rooms
2. Book Room
3. Cancel Booking
4. Exit
Enter your choice: 2
Enter room number: 1
Enter guest name: Dennis Ritchie
Room 1 booked successfully.

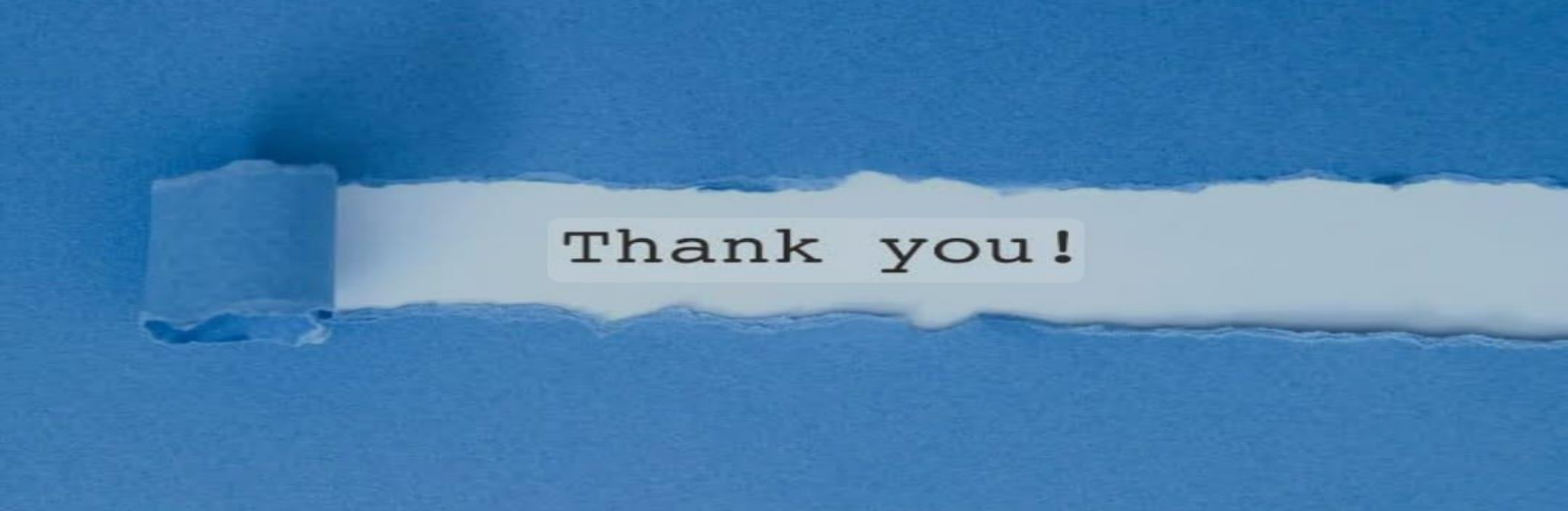
Hotel Room Booking System
1. Display Rooms
2. Book Room
3. Cancel Booking
4. Exit
Enter your choice: Enter room number:
Enter guest name: Room 1 is already booked.

Hotel Room Booking System
1. Display Rooms
2. Book Room
3. Cancel Booking
4. Exit
Enter your choice: 1

```
Luxury Lion Hotel Logo | Brand: ... GDB online Debugger | Code, C x +
onlinegdb.com/xF44zB4Od
main.c
1 #include <stdio.h>
2 #include <string.h>
3
4 #define MAX_ROOMS 100
5 #define MAX_NAME_LENGTH 50
6
7 // Structure to represent a room
8 typedef struct {
9     int roomNumber;
10    char guestName[MAX_NAME_LENGTH];
11    int isBooked;
12 } Room;
13
14 // Function to display all rooms
15 void displayRooms(Room rooms[], int numRooms) {
16     for (int i = 0; i < numRooms; i++) {
17         if (rooms[i].isBooked == 0) {
18             printf("Room %d: Available\n", rooms[i].roomNumber);
19         } else {
20             printf("Room %d: Booked by %s\n", rooms[i].roomNumber, rooms[i].guestName);
21         }
22     }
23 }
24
25 // Function to book a room
26 void bookRoom(Room rooms[], int numRooms, int roomNumber, char* guestName) {
27     if (roomNumber >= 1 && roomNumber <= numRooms) {
28         if (rooms[roomNumber - 1].isBooked == 0) {
29             rooms[roomNumber - 1].isBooked = 1;
30             strcpy(rooms[roomNumber - 1].guestName, guestName);
31             printf("Room %d booked successfully.\n", roomNumber);
32         } else {
33             printf("Room %d is already booked.\n", roomNumber);
34         }
35     } else {
36         printf("Invalid room number.\n");
37     }
38 }
```

CODE LINK:

<https://onlinegdb.com/xF44zB4Od>



Thank you!

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