

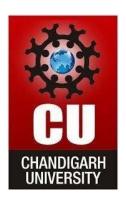




DEPARTMENT OF

UNIVERSITY INSTITUTE OF COMPUTING

CHANDIGARH UNIVERSITY



PROJECT FILE

Subject Name: Computer programming

Subject Code: 24CAH-101

SUBMITTED BY: - Sumit Kumar

UID: 24BCA10279

SUBMITTED TO: - Mr. Arvinder Singh







Acknowledgment

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NAME: - Sumit Kumar

UID: -24BCA10279







HOTEL BOOKING SYSTEM

> OVERVIEW

• A hotel booking system is a software application designed to facilitate the management of hotel room bookings, guest information, and room availability.

> Key Features of the Program

- 1. Simplicity: Easy to use for both users and administrators.
- 2. **Efficiency**: Quickly checks room availability and manages bookings.
- 3. **Scalability**: Can be expanded to include more features, such as payment processing or user authentication.

CONCLUSION

 This simple hotel booking system serves as a foundational project that demonstrates basic programming concepts in C, including structures, functions, and user input handling. It can be expanded and enhanced for more complex requirements as needed.







CODE

```
#include <stdlib.h>
#include <string.h>
     #define MAX_NAME 50
16 typedef struct {
            int roomNumber;
             char guestName[MAX_NAME];
int isBooked;
    } Room;
     Room hotel[MAX_ROOMS];
     void initializeRooms() {
   for (int i = 0; i < MAX_ROOMS; i++) {
      hotel[i].roomNumber = i + 1;
      hotel[i].isBooked = 0; // 0 means not booked</pre>
}
     void bookRoom() {
    int roomNumber;
            char name[MAX_NAME];
            displayAvailableRooms();
                   tf("Enter room number to book: ");
f("%d", &roomNumber);
            if (roomNumber < 1 || roomNumber > MAX_ROOMS || hotel[roomNumber - 1].isBooked) {
    printf("Invalid room number or room is already booked.\n");
52
53
            printf("Enter your name: ");
scanf(" %[^\n]", name); // Read string with spaces
            hotel[roomNumber - 1].isBooked = 1;
strcpy(hotel[roomNumber - 1].guestName, name);
printf("Room %d booked successfully for %s!\n", roomNumber, name);
59 }
      void displayBookings() {
            printf("Current Bookings:\n");
for (int i = 0; i < MAX_ROOMS; i++) {
    if (hotel[i].isBooked) {
        printf("Room %d is booked by %s\n", hotel[i].roomNumber, hotel[i].guestName);
}</pre>
            }
     1
```







```
int main() {
int choice;
initializeRooms();

do {
    printf("\nHotel Booking System\n");
    printf("1. Display Available Rooms\n");
    printf("2. Book a Room\n");
    printf("3. Display Bookings\n");
    printf("4. Exit\n");
    printf("4. Exit\n");
    printf("Enter your choice: ");
    scanf("%d", %choice);

switch (choice) {
    case 1:
        displayAvailableRooms();
        break;
    case 2:
        bookRoom();
        break;
    case 3:
        displayBookings();
        break;
    case 4:
        printf("Exiting the system.\n");
        break;
    default:
        printf("Invalid choice. Please try again.\n");
    }
} while (choice != 4);

return 0;
}
```

OUTPUT

```
Hotel Booking System
1. Display Available Rooms
2. Book a Room
3. Display Bookings
4. Exit
Enter your choice: 2
Available Rooms:
Room 1
Room 2
Room 3
Room 4
Room 5
Room 6
Room 7
Room 8
Room 9
Room 10
Enter room number to book: 3
Enter your name: sumit
Room 3 booked successfully for sumit!
Hotel Booking System
1. Display Available Rooms
2. Book a Room
3. Display Bookings
4. Exit
Enter your choice: 4
Exiting the system.
```