

University of Central Punjab
Faculty of Information Technology

Project 3

Hotel Management System

Project:

An online hotel management system is a dynamic website used to provide customers with flexibility in checking pricing for available rooms and advancing booking in a hotel. It also provides the hotel manager with the ability to update available rooms and update the price of each room.

Our hotel consists of 5 floors. Each floor has three different types of rooms.

- Suite (Rs. 9500 per night).
- Deluxe (Rs. 7000 per night).
- Executive (Rs. 4500 per night).

Floor 1	2	2	1	1	1	-3
Floor 2	-2	-1	-1	-1	3	3
Floor 3	-1	-1	-1	-3	-3	2
Floor 4	-1	-1	2	2	-3	-3
Floor 5	1	1	2	2	-3	-3

In the table above 3 indicates the hotel suite is occupied. -3 indicates the hotel suite is vacant. The number 2 is for occupied deluxe rooms and -2 is for vacant deluxe rooms. While 1 indicates a room is Executive and occupied. And -1 indicates the executive room is vacant.

Interface:

Design a hotel management system that allows customers to view and book rooms. Your system must also allow the hotel managers to slightly change price of rooms depending on the demand. Save the data in the form of 5x6 matrix in a file "Rooms.txt".

- Start your program by asking user if he is manager (Press M) or customer (Press C).
- If customer:

- Show him the menu. If he wants to “Book a room” or just “View Rooms and Prices” (set by Manager. Read file for showing updated data).
 - After booking, ask user to “Finalize your booking”. If he presses “Yes”, Show him total bill. Make changings in the matrix and save it in file again. But if he presses “No”, Show him the menu again.
- If Manager:
 - Show him the card. If he wants to “Update the price of Room type” or “Update the availability of room” and save changes in the text file accordingly.

Note: End your program on user’s wish. You can add as many functionalities as you need to fulfill these criteria accordingly e.g. keeping track of customers (Bonus Marks).