



# PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013



## Object Oriented Analysis And Design Assignment - 1

# Hotel Management System.

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# **Introduction**

This project aims at creating on Hotel Management System which can be used by Admin and Customers. The admin to advise/publish the availability of rooms in different hotels and customers are checking the availability of room in required hotel. Customers should be able to know the availability of the rooms on a particular date to reserve in hotel. They should be able to reserve the available rooms according to their need in advance to make their stay comfortable. The Admin hands the booking information of customers. The users can register and log into the system. The administrator will know the details of reservation and daily income. The hotel department maintain the seat availability and booking details in certain database. This project provides high security to Admin and user information.

The main objective of this project is to design a hotel management system for running a hotel business. The system should be as flexible as possible so that it can be used for different hotels.

## **Aim**

The mission is to facilitate easy management and administration of a hotel with capabilities to do Booking or reservations of the rooms, Cancellation of the rooms, Cash billing, Room service, Restaurant service, Restaurant Billing, Total Billing, Travels arrangement etc. using the automated hotel management software. One can Keep detailed records or info on an unlimited amount of customers. The system lets the user Know which all rooms are available for occupancy at any point of time. This makes the Booking considerably faster. And thus helps the hotel in better management and reduce a lot of paper work as well as manpower.

## **Objectives**

The main objective of the entire activity is to automate the process of day to day activities of Hotel like:

1. Room activities
2. Admission of a New Customer
3. Assign a room according to customer's demand
4. Checkout of a computer and releasing the room
5. Finally compute the bill etc.
6. Packages available.
7. Advance online bookings.
8. Online Cancellation.
9. List of Regular customers.
10. Email facility.
11. Feedbacks.

## **Applying Noun Phrase Approach**

Step 1:- To Identify all the Nouns present.

- Customers
- Travel Agencies
- Administrators
- Clients
- Rooms
- Reservation
- Location
- Bill
- Receptionist
- Housekeeping Staff
- Check In
- Check Out
- Booked
- Cancelled
- Pay
- Order
- Update Reservation
- Billing System
- Food Menu
- Rooms Occupied
- Rooms Vacant
- Booking Date
- Extra Amenities
- Amenities Bill
- Ordered Food
- Booking Status
- Guest Information
- Floor Manager
- Guest Feedback
- Cashier
- Groceries
- Capacity
- Mode of Payment.
- Tables
- Stock
- Eat
- Drink
- Sales
- Login
- Paid Bill
- Logout
- Chinese
- South Indian
- North Indian
- Message
- Receipt
- Telephone
- Ratings
- Employee
- Menu
- Kitchen
- Guest Name
- Type of room
- Swimming Pool
- Lounge Bill
- Pantry

## Step 2:- Eliminating the irrelevant Nouns

- Customers
- Travel Agencies
- Administrators
- Clients
- Rooms
- Reservation
- ~~Location~~
- Bill
- Receptionist
- ~~Housekeeping Staff~~
- Check In
- Check Out
- Booked
- ~~Cancelled~~
- Pay
- Order
- ~~Update Reservation~~
- Billing System
- Food Menu
- Rooms Occupied
- Rooms Vacant
- Booking Date
- ~~Extra Amenities~~
- ~~Amenities Bill~~
- Ordered Food
- Booking Status
- Guest Information
- ~~Floor Manager~~
- Guest Feedback
- ~~Cashier~~
- Groceries
- ~~Capacity~~
- Mode of Payment.
- ~~Tables~~
- ~~Stock~~
- ~~Eat~~
- ~~Drink~~
- ~~Sales~~
- Login
- Paid Bill
- Logout
- ~~Chinese~~
- ~~South Indian~~
- ~~North Indian~~
- ~~Message~~
- ~~Receipt~~
- ~~Telephone~~
- ~~Ratings~~
- ~~Employee~~
- Menu
- ~~Kitchen~~
- Guest Name
- Type of room
- Swimming Pool
- Lounge Bill
- Pantry

### Step 3:- Eliminating all redundant Nouns

- Customers
- ~~Travel Agencies~~
- Administrators
- ~~Clients~~
- Rooms
- Reservation
- ~~Location~~
- Bill
- Receptionist
- ~~Housekeeping Staff~~
- Check In
- Check Out
- Booked
- ~~Cancelled~~
- Pay
- Order
- ~~Update Reservation~~
- ~~Billing System~~
- Food Menu
- ~~Rooms Occupied~~
- ~~Rooms Vacant~~
- Booking Date
- ~~Extra Amenities~~
- ~~Amenities Bill~~
- ~~Ordered Food~~
- ~~Booking Status~~
- Guest Information
- ~~Floor Manager~~
- ~~Guest Feedback~~
- ~~Cashier~~
- Groceries
- ~~Capacity~~
- ~~Mode of Payment.~~
- ~~Tables~~
- ~~Stock~~
- ~~Eat~~
- ~~Drink~~
- ~~Sales~~
- ~~Login~~
- Paid Bill
- ~~Logout~~
- ~~Chinese~~
- ~~South Indian~~
- ~~North Indian~~
- ~~Message~~
- ~~Receipt~~
- ~~Telephone~~
- ~~Ratings~~
- ~~Employee~~
- Menu
- ~~Kitchen~~
- ~~Guest Name~~
- Type of room
- ~~Swimming Pool~~
- ~~Lounge Bill~~
- ~~Pantry~~

## Reviewing the possible Attributes:

- Customers
- Administrators
- Rooms
- Reservation
- Bill
- Receptionist
- Check In
- Check Out
- Booked
- Pay
- Order
- Booking Date
- Guest Information
- Groceries
- Paid Bill
- Menu
- Type of Room

## Step 4: Final set of classes and objects.

- Bill
- Receptionist
- Booking
- Rooms
- Guests
- Order Food