

# HOTEL MANAGEMENT SYSTEM

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## Overview:

- This project's objective is to help the hotel maintain and manage the data about the customers, and services.
- This database has details of the customer bookings and helps the receptionist keep track of the hotel bookings and services.

## Explanation:

S.No	Entities	Description
1.	Hotel	This entity provides information regarding the hotel, specifies where it is located. The attributes are hotel id, hotel name, street, city, state, country, zip code, phone number.
2.	Rooms	This entity gives information about a room that a customer might want to book, and the essential attributes are room id and room details. Room id is the primary key
3.	Room type	This entity has the information about the types of rooms which are present in the hotel and the attributes are room type id, type name, on season, cost. Room type id is the primary key
4.	Guest	This entity defines a person who wants to book a room at the hotel, and the attributes are guest id, first name, last name, age, phone number, email id, street, city, state, country, zip code, credit card, id proof.
5.	Hotel Services	This entity describes the information about all the services that the hotel can provide. The attributes of this relation are service id, type, price, and booking id, where service id is the primary key and booking id is the foreign key.
6.	Reservation	This entity contains information about every reservation made by the guest and the table contains attributes like reservation id, reservation date, check in date, check out date, no of rooms, hotel id. Where

		reservation id is the primary key and hotel id and guest id are foreign keys.
7.	Cancelation	this entity has details about cancelations made by the guests. This has attributes like cancelation id and reservation id and canceled date where cancelation id is a primary key and reservation id is a foreign key.
8.	Hotel services used	This entity has details about services used by the customer. This has attributes like services used id, hotel services, service date, reservation_id, quantity. Where service used id is a primary key and hotel service id is a foreign key.
9.	Payments	This entity has the details about the payments of the customer whether it is successful or no and this entity has the attributes like payment_id, payment mode, payment status, invoice id. Payment id is the primary key and the invoice id is the foreign key.
10.	Rooms booked.	This entity tells us the duration of the room being booked by a particular customer. The attributes are booking id, start date, start time, duration, status, end date, end time, and invoice id, where the primary key is booking id and foreign key is invoice id.
11.	Invoice	This entity gives information related to the invoice. The primary key is invoice id, and the attributes are invoice id, billing structure, customer name, customer email id, and customer address.

## Hotel Management System Data Model.

