

# Requirement Specification and ERD

## For

### Hotel Management System

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

- Room activities,
- Admission of a New Customer,
- Assign a room according to customer's demand,
- Checkout of a computer and releasing the room
- Finally compute the bill etc.
- Packages available.
- Advance online bookings.
- Online Cancellation.
- List of Regular customers.
- Feedbacks
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#### ***Requirements from users point of view***

- *Each Hotel has different kinds of rooms*
- *Each room has different facilities*
- *Each hotel can have more 1 room of same type*
- *Services should be associated with a room type*
- *A room should be in a hotel*
- *A customer can book any number of rooms at any hotel*
- *An employee can work at only hotel*
- *Every booking is associated with hotel, room and customer*
- *Every booking will have a unique payment*
- *Can Cancel the room at any point*
- *Can choose the payment method*
- *Availability of room*

#### ***Entities and their attributes :***

##### ***HOTEL ENTITY : Attributes of Hotel are***

- *hotel\_id,*
- *hotel\_name,*
- *hotel\_type,*
- *hotel\_rent,*
- *hotel\_description,*
- *hotel\_address*

**ROOMS Entity: Attributes of rooms are**

- *room\_number,*
- *room\_category,*
- *room\_type,*
- *room\_description,*

**SERVICES Entity: Attributes of Services are**

- *service\_id,*
- *service\_name,*
- *service\_type,*
- *service\_description*

**PAYMENTS Entity: Attributes of Payments are**

- *payment\_id,*
- *payment\_date,*
- *payment\_amount,*
- *payment\_description*

**BOOKING Entity: Attributes of Booking are**

- *booking\_id,*
- *booking\_title,*
- *booking\_type,*
- *booking\_date,*
- *booking\_description*

**CUSTOMERS Entity: Attributes of Customers are**

- *customer\_id,*
- *customer\_name,*
- *customer\_mobile,*
- *customer\_email,*
- *customer\_address*

**EMPLOYEE Entity: Attributes of Employee are**

- *emp\_id,*
- *emp\_name,*
- *emp\_contact,*
- *emp\_salary,*
- *emp\_address,*
- *emp\_designation*

### ***Description of HMS Database:***

- *Each entity (Customers,Services,Booking,Rooms,Hotel,Employee) contains primary and unique keys.*
- *The entity Services,Booking has binded with Hotel,Rooms entities with foreign keys.*
- *There is one-one and one-many relations between Booking,Payments,Customers, Hotel*
- *All the entities Booking,Services,Hotel,Customers are normalized to reduce duplicacy of records.*

ERD:



