

# Hotel Management System

## Members:

- Sachin Hansda (111601019)
- Surendra Baskey (111601027)
- Akash Cheerla (111601029)

## Contributions:

### Sachin:

#### Week 1:

*Requirement specifications and relations between entities*

#### Week 2:

*Collectively developed schema with other group members, mostly correcting the schemas and sql queries for schema development*

#### Week 3:

*Added few more entities and their attributes, discussed roles, views and triggers*

### Surendra:

#### Week 1:

*Made ERD*

#### Week 2:

*Collectively developed schemas with group members, most parts were done by him*

#### Week 3:

*Extended the ERD, discussed roles, views, triggers*

### Akash:

#### Week 1:

*Created of different entities and their attributes*

#### Week 2:

*Collectively developed schema with other group members*

## Week 3:

*Wrote roles, views and triggers with few discussions with other group members*

***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,*
- *occupied*

**SERVICES Entity: Attributes of Services are**

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

**PAYMENT 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*

**CUSTOMER 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*

**FEEDBACK Entity: Attributes of Feedback are**

- *feedback\_date*
- *rating*
- *review*

**FOOD\_SERVICE Entity: Attributes of Food\_service are**

- *food\_service\_id*
- *food\_service\_date*
- *food\_service\_time*
- *food\_service\_bill*

**FOOD\_ORDER Entity: Attributes of Food\_order are**

- *Food*
- *Quantity*
- *Price*

**VEHICLE\_RENT Entity: Attributes of Vechicle\_rent are**

- *Vehicle\_type*
- *Vehicle\_no*
- *Rental\_date*
- *Rental\_time*
- *Rental\_rate*

**CAB Entity: Attributes of Cab are**

- *Cab\_type*
- *Cab\_no*
- *Cab\_date*
- *Cab\_time*
- *Cab\_rate*
- *Distance*

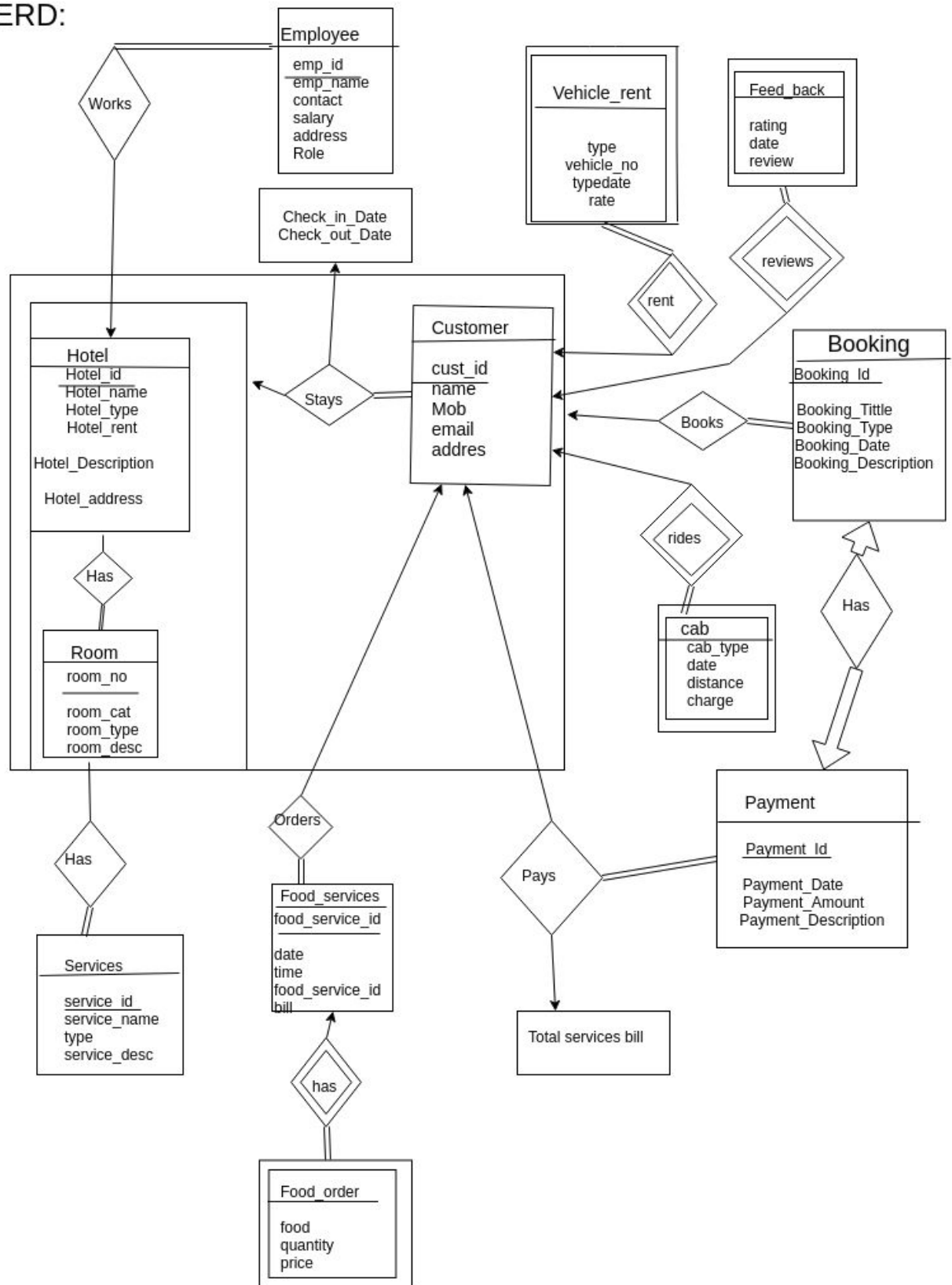
**Bill Entity: Attributes of Bill are**

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### ***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:



## **Roles:**

- **Customer:**

1. *multiple users can have the role of Customer*
2. *They can only book rooms, food and have access of their own history.*
3. *Can check the availability of rooms and services.*
4. *Can give ratings and reviews*

- **Manager :**

1. *Can have the access to every data that belongs to that hotel they work in.*
2. *Cannot edit the customers ratings and reviews,*

## **Admins :**

*Sachin,akash,surendra.*

## **Views:**

1. *Customers booking history*
2. *Availability of rooms*
3. *Review and ratings*
4. *Location*

## **Triggers:**

1. *After\_checking\_out*  
*When a customer checks out bill should be generated*

