

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

Week 4:

Created web pages

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

Week 4:

Inserted some datas in project database and gave few ideas for web pages

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

Week 4:

Inserted some datas in project database and gave ideas for web pages

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*

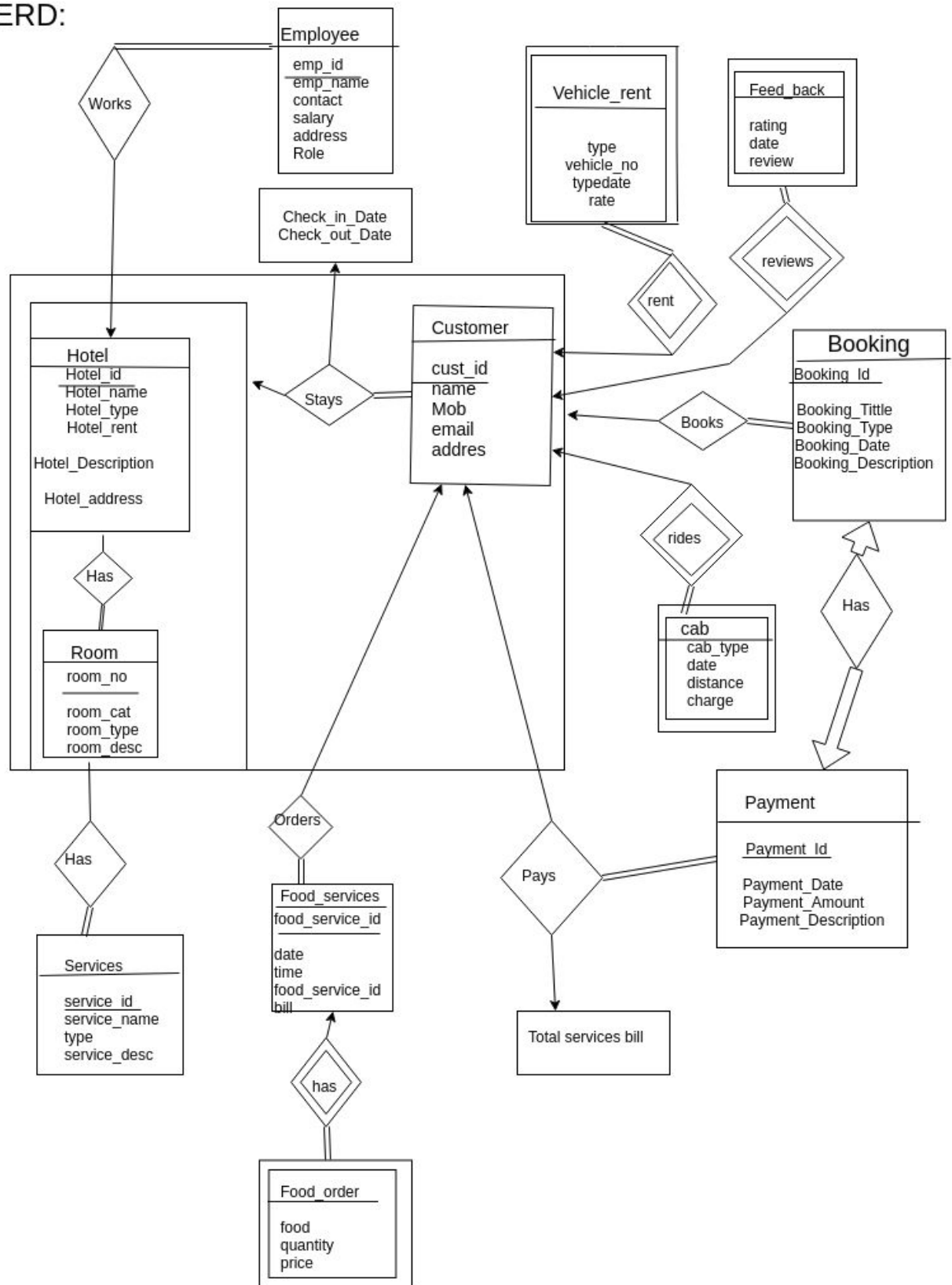
CAB Entity: Attributes of Cab are

- *Cab_type*
- *Cab_no*
- *Cab_date*
- *Cab_time*
- *Cab_rate*
- *Distance*

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

Screenshots of webpages

