

Hotel Management System

1. Purpose

- To understand the usage of migration and relationship in laravel
- To understand the general processes of offline hotel management and bookings

2. Data Dictionary

DB_NAME = hotel_management_db

Entity Name: RoomType				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for room type
name		varchar(255)	No	Room type name
pricepernight		integer	No	Price for each room type
description		text	No	Room description and features
noofpeople		integer	No	Maximum people allowed in room type
noofbed		integer	No	Number of beds existed in room type
image		varchar(255)	No	Room image to show in website

Entity Name: Room				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for room
roomtype_id	F	integer	No	Ref table: RoomType
roomno		varchar(255)	No	Room no according to floor or room type
status		varchar(255)	No	Room available status

Entity Name: Service

Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for service
name		varchar(255)	No	Service type name
unitcharge		integer	No	Price for each service

Entity Name: User

Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for user
name		varchar(255)	No	User name
email		varchar(255)	No	User email address
password		varchar(255)	No	User password to log in system
profilepicture		varchar(255)	No	User profile picture
phone		varchar(30)	No	User phone number
address		varchar(255)	No	User address

Entity Name: MemberType

Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for member type
name		varchar(255)	No	Member type name

Entity Name: Guest				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for guest
name		varchar(255)	No	Guest name
email		varchar(255)	No	Guest email address
phone1		varchar(30)	No	Guest phone number
phone2		varchar(30)	Yes	Guest another phone number
city		varchar(50)	No	City of guest lives
country		varchar(50)	No	Country of guest lives
user_id	F	integer	No	To know registered staff id Ref table: User
membertype_id	F	integer	No	Ref table: MemberType

Entity Name: Booking				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for booking
checkindate		date	No	Booking start date
checkoutdate		date	No	Booking end date
noofadult		integer	No	No of adult
noofchildren		integer	Yes	No of children
estimatedarrivaltime		varchar(255)	Yes	Guest arrival time
totalcost		integer	No	Total cost for room
grandtotal		integer	No	Total cost for all services
status		varchar(20)	No	Status of booking - book, check in, check out, cancel

note		text	Yes	Any note requested from guest
guest_id	F	integer	No	Ref table: Guest
user_id	F	integer	No	To know which staff recorded the booking Ref table: User

Entity Name: Booking_Room				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for booking detail
room_id	F	integer	No	Ref table: Room
booking_id	F	integer	No	Ref table: Booking
note		text	Yes	To record any damage or other while the guest is using
extrabed		integer	No	To record whether the room has taken extra bed or not

Entity Name: Food				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for food
name		varchar(255)	No	Food item name
unitprice		integer	No	Food unit price
image		varchar(255)	Yes	Food image

Entity Name: Order				
Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for order

room_id	F	integer	No	Ref table: Room
totalprice		integer	No	Total price for ordered items

Entity Name: Food_Order

Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for food_order
order_id	F	integer	No	Ref table: Order
food_id	F	integer	No	Ref table: Food
qty		integer	No	Quantity of ordered items

Entity Name: Room_Service

Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for servicecharge
room_id	F	integer	No	Ref table: Room
service_id	F	integer	No	Ref table: Service
totalcharges		integer	No	Total of service charges

Entity Name: Payment

Attribute	P/F	Datatype	Nullable	Description
id	P	integer	No	Unique identifier for payment
booking_id	F	integer	No	Ref table: Booking
status		varchar(20)	No	Status of payment

3. Entity Relationship Diagram

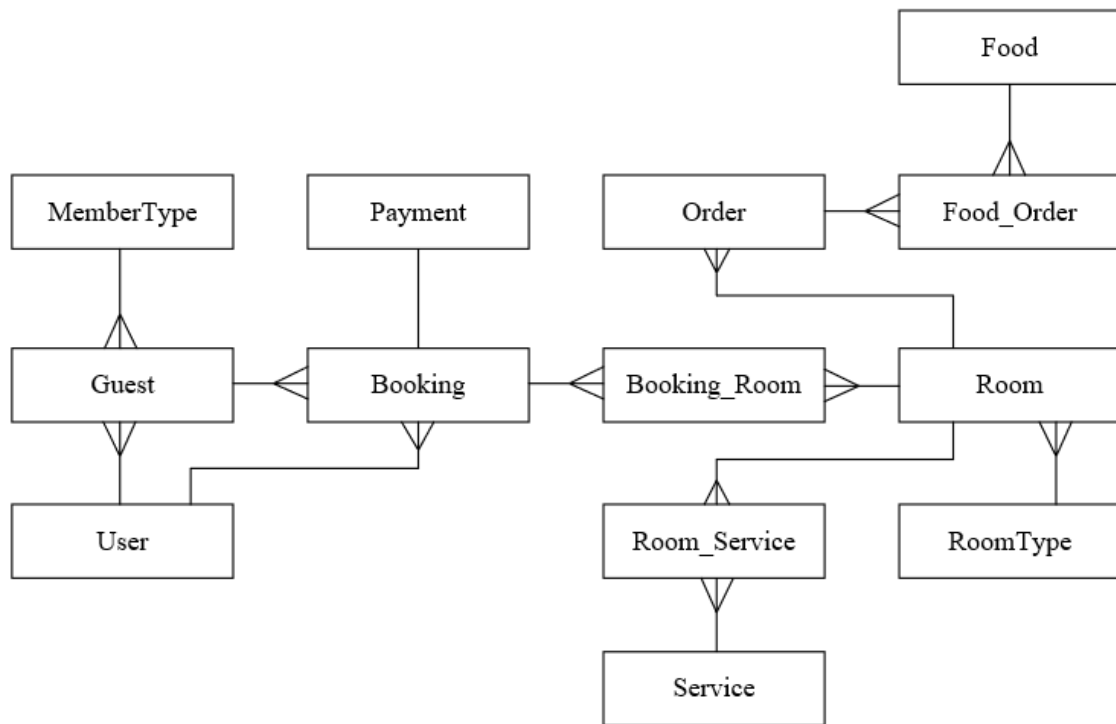


Fig. Entity Relationship Diagram of Hotel Management System