**HOTEL RESERVATION**

**SYSTEM**

**Database Management System**

**Mini Project**

1. **Introduction**

Hotel needs to maintain the record of guests and reserve rooms beforehand.

Customers should be able to know the availability of the rooms on a particular date. They should be able to reserve the available rooms according to their need in advance. To make their stay comfortable, they are provided with food and other services. The record of the food taken by each customer and the services availed by the customer should be kept. These records help in generating bill.

**2. Requirements**

The hotel reservation system should be able to satisfy the following requirements :

1. The system should be able to keep the records of the guests and the room allotted

to them.

2. Customers should be able to know the availability of the rooms on a particular

date.

3. Guests should be able to book the available rooms online.

4. The record of food and services availed by the customer should be kept.

5. The system should be able to generate the bill for a customer.

**3. Design**

**Entities And Attributes**

1. GUEST has attributes ID(Key),Name, Address,Phone No, NoOfAdults,No Of Children

2. ROOM has attributes RoomNo(Key) ,Type, Rate and Status(unoccupied or occupied)

3. FOOD has attributes ID(Key),Name and Rate.

4. FACILITIES has attributes ID(Key),Name and Rate.

6. BILL has attributes BillNo(Key),GuestID,NoOfRooms,TotalRoomCost,TotalFoodCost and Amount.

**Relations and their description**

1. GUEST are ALLOTED ROOM from CheckInDate to CheckOutDate. One

Guest can be alloted more than one room.More tahan one GUEST might have occupied the ROOM.

2. GUEST PAYS BILL. A GUEST must pay a BILL.

3. GUEST USES FACILITIES. One GUEST can use more than one FACILITIES and any no. of each FACILITY and are charged as per total Cost for the no. used..

4. GUEST ORDERS FOOD . GUEST can order more than

one FOOD item and any quantity of the same FOOD item and one FOOD item can be ordered by more than one GUEST.The ORDERED FOOD cost is calculated in ORDERS based on FOOD rate and ORDERed quanity.