DBMS Project

Prof. Name : P M Jat

Topic : Hotel Management

Group No : G4_3

➢ OBJECTIVE:-

We are designing and implementing the database for hotel management. The manager manages a group of hotels, including all its services, customer reservation, maintenance, and employee profiles. This application helps manage the data flow between various hotels and all its workload, increasing the efficiency and time for the manager.

Let website is named as 'hotelallinone.com'

➢ DESCRIPTION:-

The application is based on the manager's point of view. He can get all the details regarding all hotels, like Hotel's unique Id, hotel name, contact no of the Hotel, Address ,and City. Each Hotel has a unique ID which cannot be null. Each Hotel has multiple floors, with a unique floor number and a detail regarding the total number of rooms on each floor.

The application can check room availability which consists of room information like the room number, room type, room rate, and employee assigned to the particular room. The customer who wants to reserve any hotel must provide the hotel id, room number, start date, and end date, and the application will update the info if the room is available. In return, the customer will receive his unique id and confirmation number required for checking for the particular reservation. The customer also has to show Identity proof during reservation which will be recorded in the database. The application also has a slot for customer details like their name, address, phone number, email, and bill number for the payment of hotel reservations.

The hotel provides services like Discount coupons, pools, a gym, housekeeping, exquisite food, a garden, a game zone, etc. The manager has access to all the employee information, such as name, gender, date of birth, email, and contact number. Each employee has a unique id, a department, and a supervisor assigned to them, and their salary is decided and recorded in the database. There are multiple departments, each with a unique department id, name, manager, and group of employees.

The application also has a record of the food menu catalog. Each food has its food no. that is assigned for better systemization. It also stores information like food type, Rate, and food Category. All the food items delivered are monitored through an array of bills with information about the customer who ordered, the date, time, room number provided, food number, and the employee who delivered it.

All the maintenance bills, including plumbing activities, pool cleaning, electricity bills and repairs, employee salary, gardening, and water tax. There is also a record of all the transactions from the bank account of the Hotel. It has details like the bill no of the customer reservation, account number, amount transacted, date, time, payment method, and total balance after the transaction.

➢ *Tentative list of Queries for information and reporting*

User login :

- *List 5 star hotels in Gandhinagar city having gym facility.*
- *List hotels in Ahmedabad having more than 5 star.*
- *List hotels in range of 10000 to 15000.*

Manager Login :

- *Count total revenue from year 2020. (By using particular hotel ID)*
- *List employees who working in cleaning department.*
- *Count average money spend in maintenance department.*
- *List number of booking for last month which are not checked in.*

Group Members :

Name	Student ID
Smeet Agrawal	**202101237**
Dhruvin Chaudhary	**202101239**
Rushang Parmar	**202101240**
Bhavesh Baraiya(Group rep.)	**202101241 (Contact no. 6355528404)**