

Group No.: A Project No.: E
Project Name: Hotel Management System

PHASE - I
REQUIREMENTS DOCUMENT

Miniworld :-

Every database is created to replace the time consuming, inefficient and disorganized paper work and completely manage everything by computers, which helps us to perform all the operations much faster and efficient than manual work.

The database helps to keep record of people that had stayed in hotel, calculate bill amount and provide services efficiently by keeping track of all services requested.

Hotel Ena has single, double or quad rooms. Also, Rooms are of two types i.e air conditioned or non air conditioned. Guest who checks in can avail services like restaurant, laundry etc. Hotel manager updates the database regarding the material management, quality management, energy management, housekeeping and security. Material management refers to the keeping update of the food materials, beverages, and requisites like toiletries inside the room. Quality management refers to the quality of rooms, food, laundry and other services available. Energy management includes backup electricity during power cut and non-stop electricity must be there in all rooms. Housekeeping updation in database refers to how many housekeeping staffs are present on current date and who all are on leave. Security updation in database refers to regular check on security guards and locks associated to each room. These all must be updated from manager's side.

Database requirements :-

When a person wants to book a hotel, he/she has to registered by online or manually at the hotel. First we will query that the person has already booked the hotel or not, if the person has already booked the hotel we will check the identity card (aadhar card, voter id etc). If the booked id matches with the actual id shown by customer, then we will provide the booked room, otherwise we will not allow. In the case if the person has not already booked the room, then we will show him the list of rooms with price. Our list of rooms has the available number of single room, dual room and family room(max 4 persons) with AC or non-AC and their respective price. If a person has booked the room then we will collect the booking money and record the customer identity, his address, check in time and check out time

etc in hotel database. Once we will check the room for confirmation that room's cleanliness, quality of furnitures, electricity, water supply etc working properly. If the everything is fine then we will allow the customer to enter in the room. There will be a food and beverage menu in the room from which customer can order the food. We will record the customer's order and provide him food and beverages. At the time of check out we will add all the prices of food and beverages and bill will be presented.

We need to update all the things online. In case if someone books a room offline, then we have to update that online such that there will no booking of pre booked room. We have to show all the rooms menu and food menu online such that person can choose the hotel according to the preference. If a person left the room before the expected date, we have to update that online as soon as possible, such that person get more options of choosing a room.

Add DB requirements according to new Application Requirements.
Constraints:-

1. Indian visitor must have identity proof (Aadhar Card, Voter ID or some other identity)
2. Foreign visitor must have valid passport and ID proof.
3. Number of guest for a room must be less than equal to capacity of room.
4. During Check out, amount paid must be greater than equal to accommodation + food (possibility of tip).
5. Room will be available for booking again after 4 hours of checkout (maintenance)
6. No booking if available room list is empty.
7. Room service not available if free staff list is empty
8. Staff will be free after atmost 15 min of room service .

Application requirements:-

There must be provision for:-

1. Addition of new customer in hotel.
2. Booking of new rooms in hotel.
3. Addition of new employees in hotel.
4. Online updating the number of rooms available of each type. *and their price.*
5. Registering customer by confirming their id. *& check-in.*
6. Updating restaurant opening and closing status.
7. Displaying all the list of available rooms.
8. Displaying all the available menu of foods to customers.
9. Displaying the list of all staff.

10. Ordering food and beverages
11. Room maintenance status.
12. Room service request.
13. Get Present staff(all employees that are present that day)
14. Get Available Staff(staffs which are free to do room service)
15. select staff for room service
16. Check out of room.
17. Payment Amount (accommodation + food + extra).
18. Adding every paid service (food, room service, extra products and services) to the DB and to final bill.
19. Managing Electricity Bills. (Bills & Payments)
20. Managing Staff Salary.
21. Managing inventory/stores.
22. Adding new rooms (in case of hotel gets extension).
23. ~~Adding~~ Removing/Disabling employees quitting job.
24. Updating Employee Records.
25. Updating room Records.
26. Updating Customer Information.
27. Updating Room Booking if a customer has already booked a room and wishes to change room type. (i.e. upgrade/downgrade the existing booking).
28. Cancelling a booking.

