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# **1. Hotel Management System**

## **1.1.Database Planning**

We can Divide our Hotel Management System Into Following Sections.

### **1.1.1 Mission Objectives**

*“The purpose of Hotel Management System is to help out Stack-Holders in Manage them room bookings and optimize their profit. The system will keep track of the rooms and generate information related to finance, room booking, and Generate financial report.”*

### **1.1.2 Mission Objective of Database**

Mission Objective of the database is

- To maintain (Enter, Update and Delete) data on rooms

- To maintain (Enter, Update and Delete) data on Customer

- To maintain (Enter, Update and Delete) data on Managers

## Hotel Management System

To maintain (Enter, Update and Delete) data on Customer Activities

To maintain (Enter, Update and Delete) data on Bookings

To maintain (Enter, Update and Delete) data on Finance

To maintain (Enter, Update and Delete) data on Free Rooms

To maintain (Enter, Update and Delete) data on Booked Rooms

To maintain (Enter, Update and Delete) data on Room Cancellation

To maintain (Enter, Update and Delete) data on Branch

To maintain (Enter, Update and Delete) data on Employees

To maintain (Enter, Update and Delete) data on Wages

To maintain (Enter, Update and Delete) data on Viewing

To Search on rooms

To Search on Customer

To Search on Finance

To Search on Branch

To Search on Employees

To track on Rooms

To track on Client

To track on Free Rooms

To track on Booked Rooms

To report on rooms

To report data on Customer

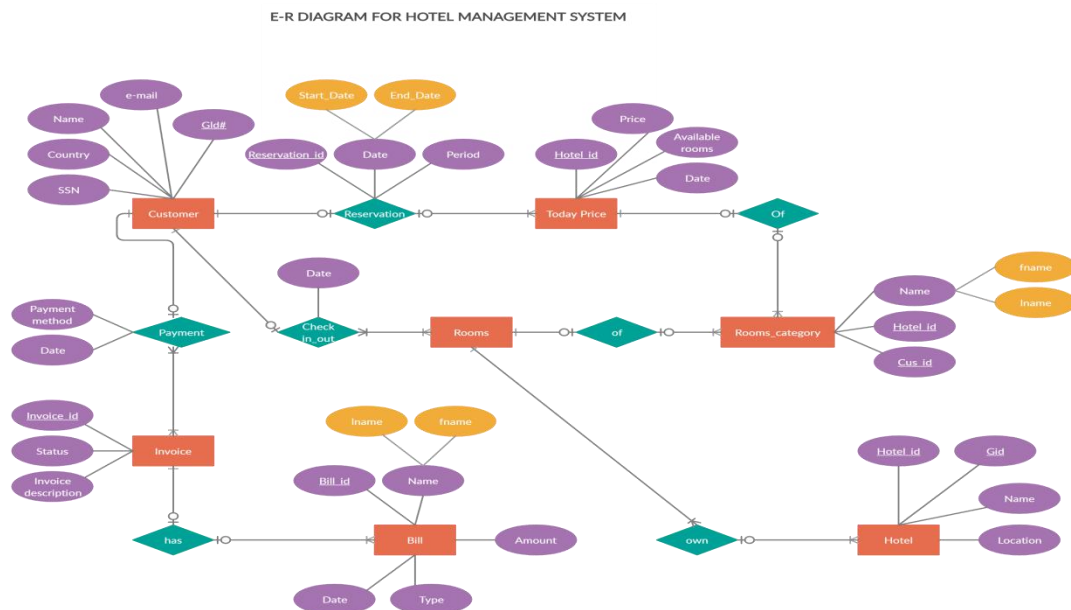
To report on Bookings

To report on Finance

To report on Branch

To report on Employees

### 1.1.3 ER Digram



### 1.1.4 Views

There is only one view in our Systems

## 1.2.Task Assign to Members

### 1.2.1 Abdul Haseeb Khan And Khanzada Haider Ali:

Abdul Haseeb Khan and Khanzada Hadier will design and develop the Login Functionalites in Our Hotel Managemnt System by interacting with database to validate the user. This task does not include any java program or moduling. It's purely SQL related. We will be able to finish our tasks in the project as soon as we learn the queries required to do our task. Our task includes the handling of making of new Ids by the users. This includes first time making of a new id which includes unique usernames as provided by the user and the password. After making of the new ids the users can log in through the data they provided. This will include cross checking of the usernames and passwords across the ids of the users. Our work will take almost a week if we know the certain queries which we will learn as the classes go by.

### **1.2.2 Ashfaq Rahim And Hasssan Shah Nawaz**

#### **Mission objective modules of our project:**

Develop and design the dashboard functionalities after user will login the system.

#### **SCOPE:**

We want to choose the metrics that matter. We want to keep it visual. We want to make it interactive for collaboration. We want to pull data from all sources to get the full picture and keep the dashboards up to date or refreshed. And, finally, we want to make it simple to access and easy to use.

#### **TIME AND COMPLEXITY:**

The time taken for developing and designing dashboard is 2 months. Building an effective dashboard according to best practices for dashboard design is the culmination of a comprehensive process that would usually include gathering requirements, defining, and creating a data model. However, the importance of proper dashboard design should not be understated. Poorly designed dashboards could fail to convey useful information and insights and even make the data less comprehensible than it was originally.

## **MISSION OBJECTIVE:**

### **Makes the complex simple:**

we have lots of information, lots of data that changes all the time and different analytical needs and questions. We want to take all this complexity and make it simple.

### **Tells a clear story:**

we want to be able to connect data to its context in the business and to answer the viewer's questions. This is where the visual layout of a dashboard plays a crucial role.

**Expresses the meaning of the data:** the chosen data visualizations need to correctly represent the data and the information you want to extract from it.

**Reveals details as needed:** we want each viewer to have access to the data they need — no less but also no more. Some users might need to be able to see a more granular view of the data — others could suffice with an overview.

## **MAJOR USER VIEW:**

Dashboards are a unique and powerful way to present data-based intelligence using data visualization techniques

that display relevant, actionable data as well as track stats and key performance indicators (KPIs). Dashboards should present this data in a quick, easy-to-scan format with the most relevant information understandable briefly.

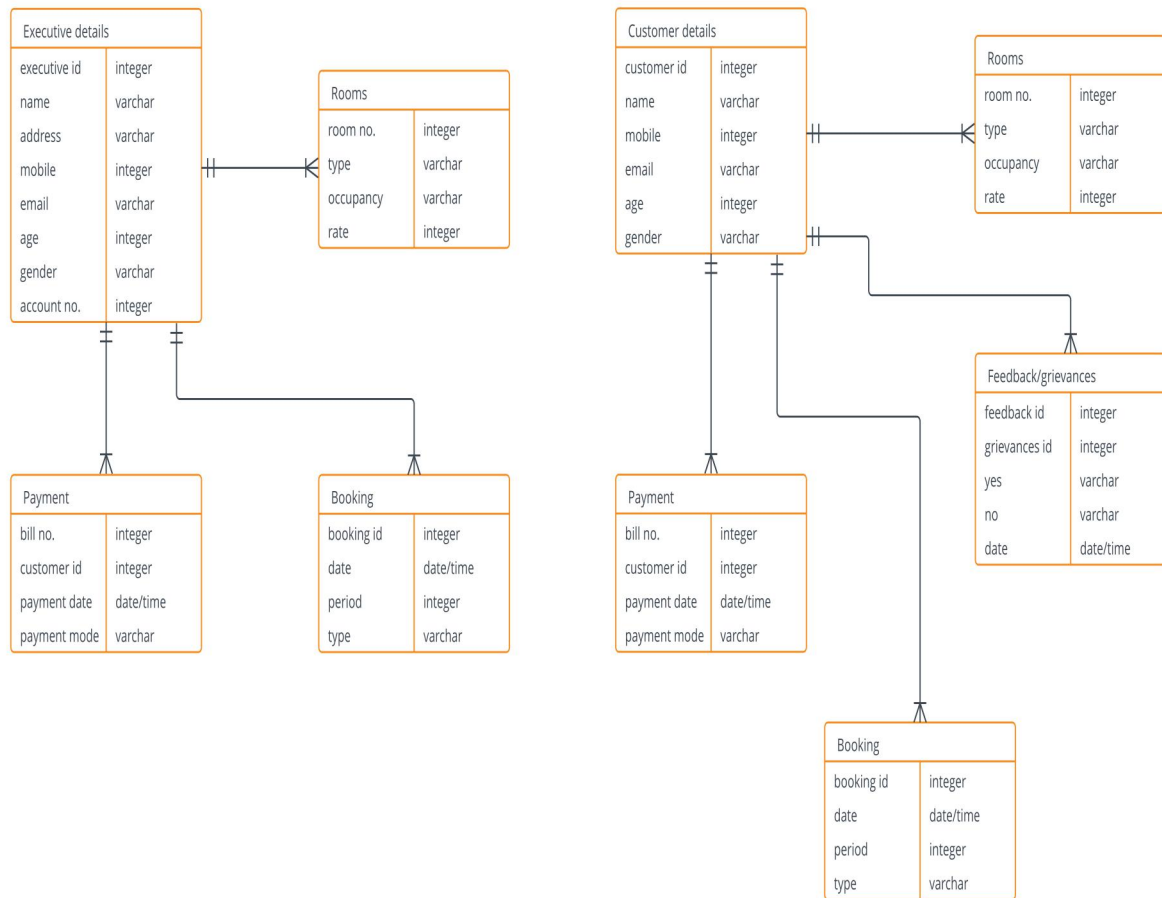
## **MISSION STATEMENT:**

This mission statement has helped guide me where to partner, but I also have a set of principles I follow once I start working on a data visualization project. I believe it fits the definition from above. My data visualization mission statement is:

1. Reduce the time to insight
2. Increase the accuracy of insights
3. Improve engagement

## **DASHBOARD ER DIAMGRAM:**

## Hotel Management System



### 1.2.3 Fahad Afzal, Imad Ahmed

#### Task:

Imad and Fahad must design and develop the room status and selection that will include available rooms, new client's insertion part, available and booked rooms and the price of rooms and client information related part.

## Hotel Management System



**Scope:**

We will create client`s residential system. This module will help the client to make his/her choice of reservation easy. It will provide the client with the necessary information about suite and rooms which he/she needs to know.

**Development Time:**

This module will take about three (3) and a half month (1/2) to complete.

**Complexity:**

Since we are in a learning phase so our module can have a lot of flaws. Despite our hard work we will not be able to cover all holes. We`ll be using Java net-beans for our module which will use different concepts of coding.

**Mission Statement:**

We will make client residential module.

**Major View:**

For our convenience we are dealing with only one major view.

**Conclusion:**

Our Project is about Hotel management system and Imad and Fahad will deal the client`s residential part. As the client demands about its residency we`ll provide the client several option for example which type suite clients want to book he/she can book king size suite or medium size suite, whether he/she want double bed or not, does the client want attach jacuzzi with steam bath or not. How

much the client wants to stay in our hotel, two days or 3 days or a week. According to our client's information about stay in hotel we'll offer him/her the different deals. If the client often visits at our hotel, we will provide the client premium membership which will reduce his/her booking costs in next trips. Further we will collect client's personal information as per our hotel policy i.e. Name, permanent address, reason to visit (vocation or business tour), identity proof etc. If the client stays in his/her booked suite for one day or night and had a change of mind and want to change the room or there is an emergency for the client we will provide the client with different facilities and the cost may varies according to situation. If a client is superstitious and want the room of his/her choice, then we will do our utmost effort to provide the client with there choice. If the rooms are under maintenance, we will provide advance notification via email if due to some reason client didn't read the email we will notify the reception with the information. Furthermore, if a client books a suite and didn't come to suite and due to some reasons, the client cancels their reservation well provide 70% money back guarantee. The price may vary for different client it depends on client's membership. The discount packages will only be available for premium membership holder's and the client which is not regular will be charge according to his/her reservations. Since the client does not know the rooms available for reservations so we will provide the information on the screen Infront of the receptionist so it will be easy for client to decide his/her choice. One additional thing we will provide the client will

get a choice whether he/she wants the room service and laundry or not.

**.....xxxxxxxxxxTHE-ENDxxxxxxxxxx.....**

#### **1.2.4 Hassan Ali Jadoon, Awais And Sardar Badar**

##### **Scope:**

We will create financial module of the app. This module will generate weekly, monthly and annual Financial report of the hotel. It will also calculate the revenue generated by the rooms. In the end we will also integrate all modules of hotel management system.

##### **Development Time:**

This module requires about 3 months to be completed

##### **Complexity:**

We will use Swing Framework of Java as assigned by the instructor. Beside that we have to learn Object Oriented concepts of Java. The main issue with the swing framework that it does not have wide community thus we will have to face many issues during the learning phase, also it does not have extensive tutorials.

##### **Mission Objective:**

We will make finance module

##### **Major Views:**

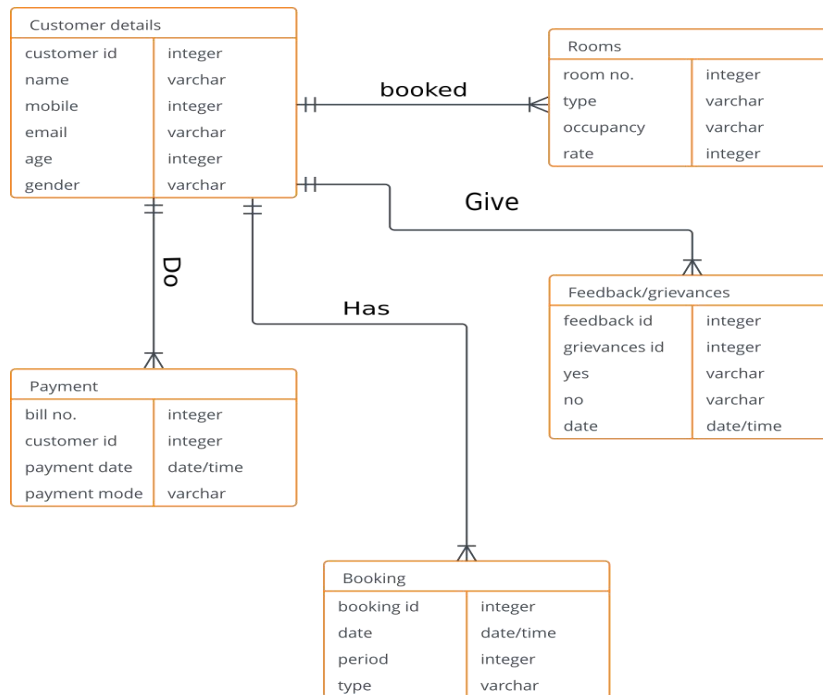
For the sake of simplicity, we are dealing with one major view.

##### **Conclusion:**

Although we deal with data financial module of app but it will take about 3 months due to wide range of complexity we will face learning framework like swing and OOP concepts as well

## Hotel Management System

### ER-Digram



## Prototype

*Hotema Finance Area*

Monthly revenue

jTextField1

Weekly Revenue

jTextField1

Daily Revenu

jTextField1

Year Revenue

jTextField1

Room	Status	Revenu	Price	Monthly ...
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