

**Project Name:** ABC's Hotel Management System

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<b>Current Iteration</b>  <b>Iteration 1</b>	<i>Project Direction Overview</i> – You provide an overview that describes who the database will be for, what kind of data it will contain, how you envision it will be used, and most importantly, why you are interested in it.
	<i>Use Cases and Fields</i> – You provide use cases that enumerate steps of how the database will be typically used, also identify significant database fields needed to support the use case.
	<i>Summary and Reflection</i> – You concisely summarize your project and the work you have completed thus far, and additionally record your questions, concerns, and observations, so that you and your facilitator or instructor are aware of them and can communicate about them.

#### **Project Direction Overview:**

I want to build a database to develop a hotel management system for **ABC Hotels** to manage the work efficiently. This project's primary focus is to enable online booking for customers and allows the managers to track the booking details and employee records. This database will contain all the records of the employees, customers, rooms, and other services offered. The customer can create an account, login and book the desired rooms and other facilities involved or make modifications if applicable to the booking made. The manager can easily track what kind of room the customer has booked, enabling fast and easy retrieval of guest records and data for fast reference activities.

The Scenarios in which this database will be used are as follows

- (i) A Customer wants to book a hotel room, he can create an account to avail offers and book the room.
- (ii) A Customer can check for different type of hotel rooms and the type of services offered by the hotel
- (iii) Employee working at the hotel can login and update his personal records.
- (iv) Employee can check for the shift timings and the record the timing he worked for by logging in.
- (v) Employee can check for the assigned service as requested by the customer
- (vi) Employee with the role as manager can assign work to other employees.

This is just the basic overview of my project; I might add certain use case and fields as required while developing the project.

## Use Cases and Fields:

**I) Account Signup:** This enables the customer to sign up for an account and book the desired services.

1. The Customer visits the ABC Hotel's website.
2. The user creates the account by filling some basic details.
3. The Account is created in the database.

Field	What it Stores	Why it's Needed
FirstName	This is the first name of the account holder.	This is necessary for displaying the person's name on screens and addressing them when sending them emails or other communications
LastName	This is the last name of the account holder	This is necessary for displaying the person's name on screens and addressing them when sending them emails or other communications.
Email	This stores the email of the account holder.	This is necessary while sending email to the customer
Password	This holds the password of the account.	In order to login to the account, password would be required.
PhoneNumber	This stores the phone number of the account holder	This will be helpful for the communication purposes when a customer cannot be reached through mails.
Date	This is the date the account was created.	This field has the value of the current date,
AccountID	It stores the default ID given to the account	The account ID will be useful in locating the data avoiding redundancies when two persons has the same name.
TypeOfAccount	It stores the type of account the customer has created, if it's a VIP or Normal Account.	Appropriate offers will be applicable based on the type of account.

**II)Employee Record:** The employees of the hotel can login, look up for the shifts, clock's in and out based on the shift timings and can check, modify other personal details.

1. Employee logs in to the account.
2. Employee can check for the assigned shift timings.
3. He / She can clock in, and clock out based on the shift timing
4. The employee can update the personal details if required.
5. The authorized employee can login and track the booked rooms and the services.

6. The manager can login and assign shifts based on the services as requested by the customer.

Field	What it Stores	Why it's Needed
FirstNameE	This is the first name of the account holder.	This is necessary for displaying the person's name on screens and addressing them when sending them emails or other communications
LastNameE	This is the last name of the account holder	This is necessary for displaying the person's name on screens and addressing them when sending them emails or other communications.
Email	This stores the email of the account holder.	This is necessary while sending email to the customer
Password	This holds the password of the account.	In order to login to the account, password would be required.
PhoneNumberE	This stores the phone number of the account holder	This will be helpful for the communication purposes when an employee cannot be reached through mails.
DateE	This is the date the account was created.	This field has the value of the current date,
AccountIDE	It stores the default ID given to the account	The account ID will be useful in locating the data avoiding redundancies when two persons has the same name.
Role	It stores what type of role the employee is in.	Shifts can be assigned based on the role
ShiftDetails	This field stores the shift details of the employee	Every employee will be allocated certain shifts to work on.
ClockIn	This field records the clockin date and time	When the employee starts to work, he/she has to clock's in.
ClockOut	This field records the clockout date and time	When the employee starts to work, he/she has to clock's out.
Department	This shows the department name where the employee is working.	There are various departments in a hotel, to segregate different departments, this value will be required.
EmployeeID	It stores the default ID given to the account	The account ID will be useful in locating the data avoiding redundancies when two persons has the same name.

### ***III)Hotel room and Services***

1. The customer can login, book the desired room and services.

Field	What it Stores	Why it's Needed
HotelRoom	This stores the type of Room as requested by the customer	There are different type of rooms offered by the hotel, In order to differentiate rooms this field would be required.
RoomNo	This stores the RoomNo assigned.	Every room should have a unique number.
ServicesRequested	This stores the services offered by the hotel	The customer can select the required services offered by the hotel

#### **Summary and Reflection:**

This database aims to develop a management system for a hotel. The major users of this application would be the customers and the employees. The customer can login or browse as a guest to check for different type of hotel rooms and different type of services offered. The employees can login and check for the shift timings and the assigned jobs. The employee with manager role can track the employee records and assign the service to be done.

As I develop the database, I figured out some more fields would be required for tracking the payment made, salary to be deposited to the employee and I'm still facing difficulty in figuring out the logical relationship between the tables and follow some normalization rules.

Please fill me in with suggestions and changes or addons that would be required to improve the working of the db.