



Hotel/Restaurant Automation System

Group 9

DAIICT

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System Description: -

This system's main objective is to provide features that help enhance hotel management. It covers features that allow the users like hotel guests, managers, and staff to do their work efficiently. Some key features included in the HAS are booking rooms, bill payments, and details of employees, customers, and even rooms.

The database of HAS will contain all the details of the room (type of the room, tariff, floor, occupancy), guests (name, identity proof, check-in and checkout time, bill details) and staff details. The feature of booking a room will allow the guest to book a room online and even in person. There will be a function that will help generate valuable data like the average guest tariff for each month, which will help the manager adjust the prices of rooms. There will be features like searching the customer by unique customer id assigned to customers by the software.

Each guest's bill details, including food services, will be generated when the customer checkout. There will be an additional feature in which the frequent guests will be given some extra discount on their bill. Currently, we've only included a few features because our aim is to get an idea or learn more about how hotels are managed.

Development technologies / Platform / Stack: -

- ❖ **Frontend development:** - we will use HTML, CSS, and javascript to make a website so that customers can see and interact with it directly. We will also use some CSS frameworks like Bootstrap to create a responsive web page and develop a mobile responsive design.
- ❖ **Backend development:** - We will use Javascript language for backend development. The first step for building a javascript backend is to choose the framework. We will use React and angular as JS framework for backend development.
- ❖ **Database:** - It is challenging to maintain all the details of the customer, rooms, employees in paper pen mode, so to solve this problem, we will retain all of our data in Postgres SQL database (Azure).