**HOTEL MANAGEMENT SYSTEM**

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**INTRODUCTION**

The Hotel Management System, referred to as HMS, is an application that will help users better utilize rooms used by UP employees and other guests. HMS helps users manage guest flows by affording them the ability to easily check UP guests in, check them out, and generate stay reports,

among other things.

The Hotel Management System is a comprehensive solution designed to streamline and automate various operations within a hotel. This project aims to develop a robust system using Java programming language and SQL database management for efficient management of hotel resources and services.

**PROBLEM STATEMENT**

Currently in hotel all the work done manually .When a guest make a reservation, all the reservation details

Including guest details are recorded in a hotel register At the time of checkout of customer,calculations of bills and inventory item are donemanually too.

Doing all the work manually and storing information on register takes much time and westes musch precious man hours

**OBJECTIVES**

To automate and simplify the process of managing hotel operations such as room bookings, guest check-ins, check-outs, billing, and staff management.

To provide a user-friendly interface for both hotel staff and guests, facilitating smooth interactions and enhancing customer experience.

To maintain accurate records of room availability, reservations, guest information, and financial transactions.

To optimize resource utilization and improve overall efficiency in hotel management.

**TOOLS USED**

Software Requirements

Programming language -Java

Database – mysql

Hardware Requirements

Operating System-Window 11

Ram 12 GB

SDD 512GB

**FEATURES**

User Authentication: Secure login system for administrators, staff, and guests to access the system with appropriate perm

Room Management: Efficient handling of room inventory, including room types, availability, pricing, and allocation.

Reservation System: Ability to make, modify, and cancel room reservations with real-time updates to room availability.

Guest Management: Capture and manage guest details, preferences, and booking history for personalized services.

Billing and Invoicing: Generate accurate bills and invoices for guests, incorporating room charges, additional services, and taxes.

Reporting: Generate various reports such as occupancy rates, revenue analysis, and guest feedback for informed decision-making.

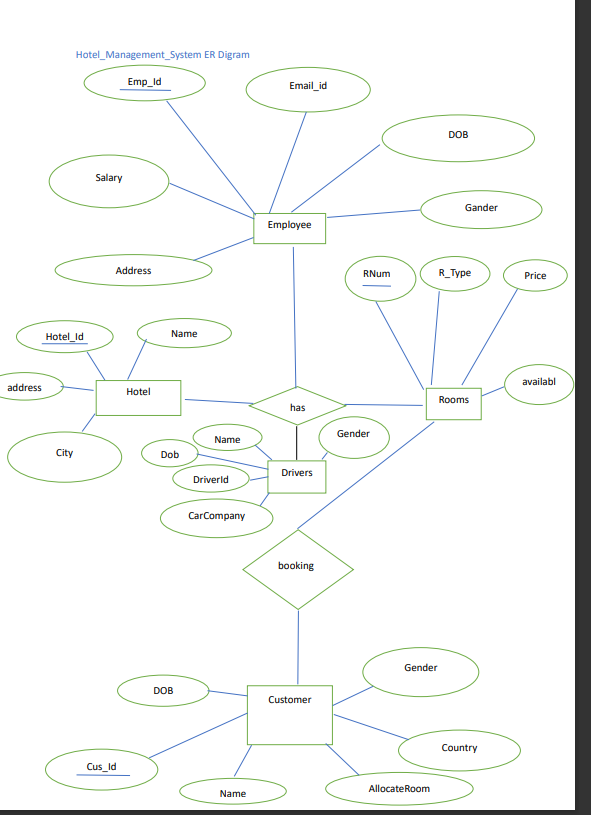
Staff Management: Manage staff roles, schedules, and tasks to ensure smooth operation of hotel services.

Feedback and Reviews: Collect feedback from guests to assess satisfaction levels and improve service quality.

**TABLES USED**

|  |
| --- |
| Customer |
| Driver |
| Employee |
| Room |

**ER-Diagram**

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