



Hotel Management System

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ABSTRACT:

The Hotel Management System project mainly focuses on improving operational efficiency of tasks. The system employs a user-friendly interface, real-time data processing, and analytics capabilities to support decision-making and personalize guest experiences. The hospitality industry constantly seeks innovative solutions to improve operational efficiency, customer satisfaction, and profitability. The system encompasses modules for reservation management, guest services, housekeeping, accounting, and analytics, integrating them into a cohesive platform. Our project aims to simplify the management of hotels through a user-friendly and efficient Hotel Management System (HMS). This system helps hotel staff handle tasks like reservations, guest services, housekeeping, and accounting with ease. With this booking rooms becomes a breeze, thanks to its straightforward interface.

Keywords: User-friendly, Operational Efficiency, Hospitality.

Introduction :

This project seeks to develop a comprehensive HMS that integrates various operational aspects of a hotel, from room reservations and inventory management to customer relationship management and financial transactions, into a single, coherent system. The need for an integrated system that can efficiently manage hotel operations while enhancing guest experiences is more pronounced than ever. An effective HMS not only streamlines operations but also provides strategic insights, facilitating informed decision-making and fostering a competitive edge. In the fast-paced and ever-evolving hospitality industry, efficiency, customer satisfaction, and seamless operational processes stand as pillars of success. The advent of digital technologies has opened new avenues for enhancing service delivery and operational effectiveness. Amidst this backdrop, the design and implementation of a Hotel Management System (HMS) emerge as a crucial innovation aimed at revolutionizing the way hotels operate. This project provides following operations that can be performed by the user.

- Check In
- Check Out
- Staff Master
- Staff Attendance
- Login
- Hotel Info
- Add items

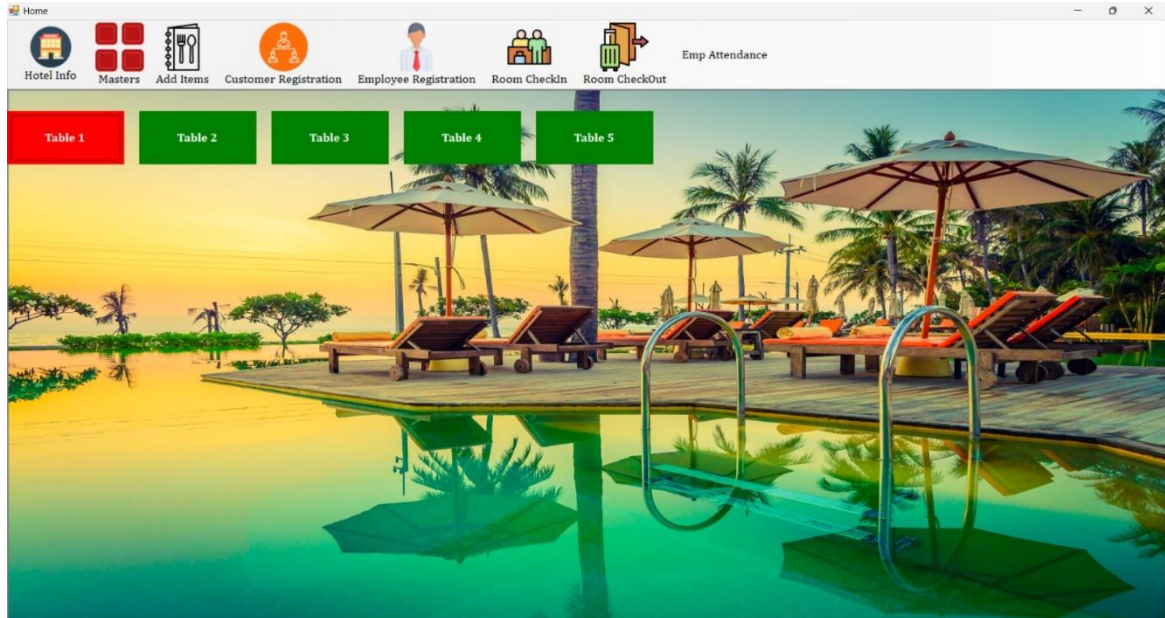
1. Literature Survey :

A literature survey for a hotel management system (HMS) project involves reviewing existing research, industry reports, and technological advancements in the field of hotel management and information systems. This survey aims to identify gaps in the current knowledge base, understand the latest trends, and gather insights that could inform the development of a new HMS. Conducting a detailed literature survey on hotel management systems (HMS) involves an extensive review of academic journals, conference papers, industry reports, and case studies that collectively offer insights into the evolution, current state, and future directions of HMS.

2. Proposed System :

2.1. Home Page

The Home page displays all the modules present in the system that are Hotel Info, Masters, Add Items, Customer Registration, Employee Registration, Room Check-in, Room Check-out and Employee Attendance.



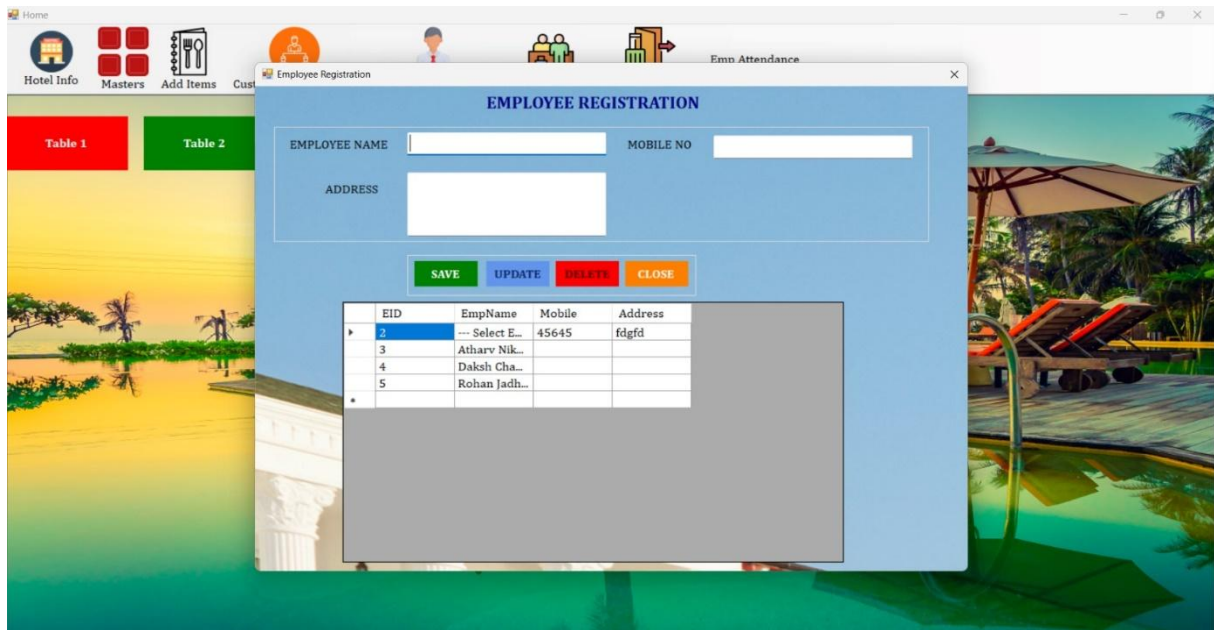
2.2. Login Page

The log in page for the HMS consists of a dialog box which allows the user to input their User name and password. It also includes a log in button and close button.



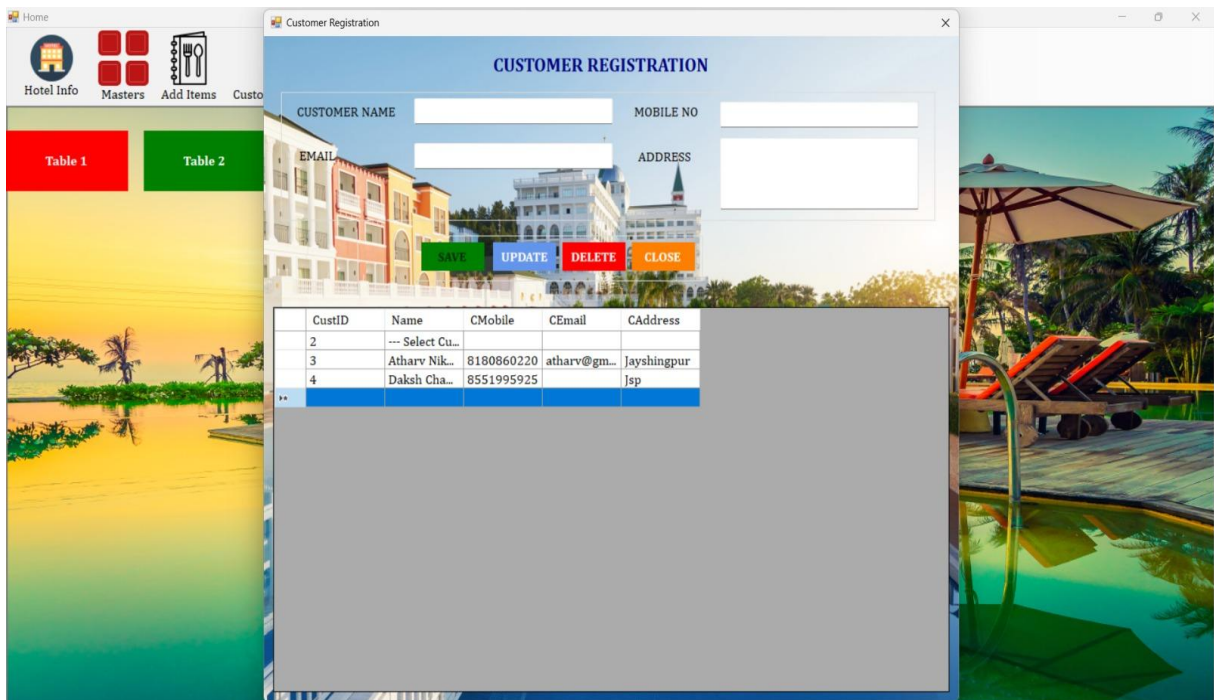
2.3. Employee Registration

The Employee Registration page has various fields where the user has to enter the name, address and mobile number of the employee. It also has controls like save, update, delete and close.



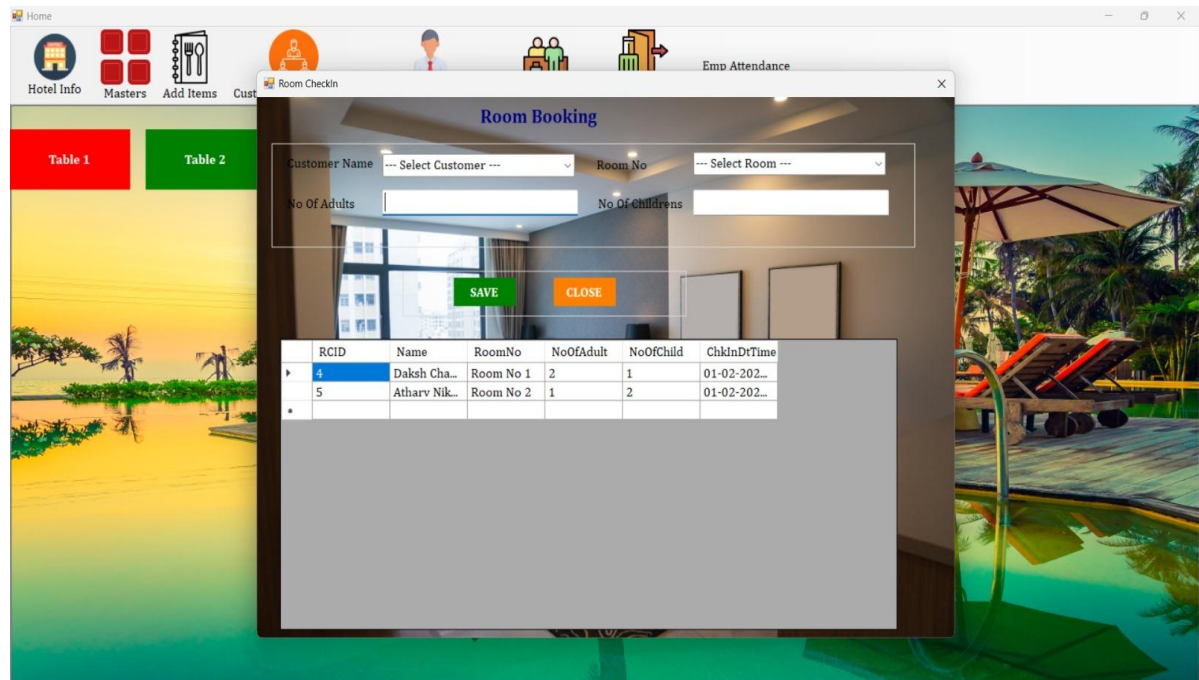
2.4. Customer Registration

The Customer Registration page has various fields like Customer Name, Mobile Number, Email, Address. It also provides form control options like save, update, delete and close.



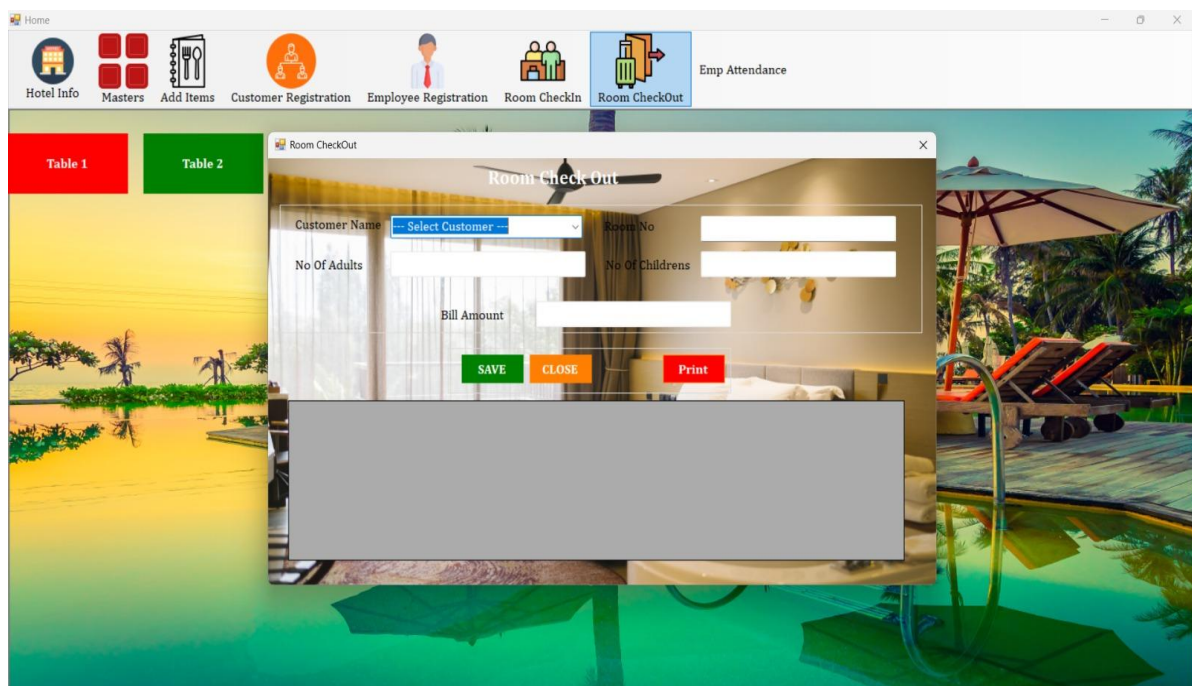
2.5. Room Check-In

The next procedure will be to allocate the customer to the room of his or her choice (Deluxe, Standard, VIP and Chalet). The page requires most importantly the name of the customer which is selected from the Dropdown Menu and the room is selected from the list of available rooms in the drop down menu. Entries can also be viewed, edited and deleted.



2.6. Room Check-Out

This page will consist of a Customer Name with dropdown menu and the user will select the customer name and the bill amount will be calculated automatically. This page will also provide the user with the option to print the bill with complete details of purchase.



Acknowledgements

Thank you to everyone who contributed to the realization of Hotel Management System making it a valuable asset for simplifying hotel operations and enhancing guest experiences.

User Documentation

1. User Manual: A comprehensive guide for users on how to navigate and utilize the features of Hotel Management System.

2. FAQ: Frequently asked questions and their answers to assist users in troubleshooting common issues.

Technical Documentation

3. Database Schema: Structure of the database used by EasyHotel, including tables, relationships, and attributes.
4. Code Documentation: Comments and documentation within the source code to aid developers in understanding the functionality of each component.

Testing Documentation

5. Test Plan: Document outlining the testing strategy, including test cases, scenarios, and expected outcomes.
6. Test Results: Summary of test results, including any issues encountered and their resolution.

Project Management Documentation

7. Project Proposal: Initial proposal outlining the scope, objectives, and deliverables of the EasyHotel project.
8. Gantt Chart: Visual representation of the project timeline, including tasks, milestones, and dependencies.

REFERENCES :

1. Brown, J., & Adams, M. (2018). Hotel Management: A Complete Guide to the Hotel Industry. Pearson.
2. Kasavana, M. L., & Brooks, R. M. (2015). Managing Front Office Operations. American Hotel & Lodging Educational Institute.
3. Hayes, D. K., & Ninemeier, J. D. (2016). Hotel Operations Management. Pearson.
4. Medlik, S., & Ingram, H. (2019). The Business of Hotels (8th ed.). Routledge.
5. Bhalla, R. (2017). Hotel Front Office Management. Tata McGraw-Hill Education.