JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

BACHELOR OF SCIENCE ELECTRICAL AND ELECTRONIC ENGINEERING

PROJECT PROPOSAL

TITLE OF PROJECT: HOTEL MANAGEMENT SYSTEM

SMA 2276: COMPUTER PROGRAMMING II

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OVERVIEW

Hotel Management System is a software system where the management of entire hotel is computerized.

The proposed project aims to develop a hotel management system in C++ that can efficiently handle the catering and accommodation needs of guests. The system will have modules for managing reservations, guest check-ins, billing, inventory, and employee management. The system will be user-friendly and will provide an easy-to-use interface for guests and staff. The system will also allow hotel staff to create and manage catering orders, and to view and update the status of each order. The application will also allow customers to place catering orders online and to track the status of their orders.

Features:

Catering

Customer Registration: Customers can create an account and login to place catering orders.

Order Management: Staff can create, view, and update catering orders, including the items ordered and customer information.

Menu Management: Staff can manage the menu of items available for catering orders, including adding, editing, and removing menu items.

Billing and Payment: The system will generate invoices for catering orders and allow customers to make online payments.

Accommodation

The hotel management system will include the following features:

Reservation Management: Guests can make reservations through the system, which will check availability and automatically allocate rooms. The system will also handle cancellations and modifications.

Check-In/Check-Out: Guests can check-in and check-out of their rooms using the system. The system will generate invoices and receipts, and update the room inventory.

Billing and Payment: The system will manage billing and payment for guest stays, including room charges, additional services, and taxes. It will also support multiple payment methods, including credit card, cash, and online payment.

Inventory Management: The system will manage the inventory of the hotel, including food and beverage items and other amenities. It will also track inventory usage and generate reports for inventory management.

Employee Management: The system will manage employee schedules, attendance, and payroll. It will also generate reports on employee performance and productivity.

Reporting and Analytics: The system will generate reports on occupancy rates, revenue, and other key performance indicators. It will also provide analytics and insights to help hotel management make data-driven decisions.

Benefits:

The proposed hotel management system will provide several benefits, including:

Increased Efficiency*:* The system will streamline hotel operations, allowing staff to manage reservations, check-ins, and billing more efficiently. It will also automate inventory management and employee scheduling.

Improved Guest Experience: The system will provide guests with a smooth check-in and check-out process, and accurate billing. It will also enable them to easily make reservations and access additional services.

Better Management and Decision-Making: The system will provide hotel management with real-time data on occupancy rates, revenue, and other key performance indicators. This will enable them to make data-driven decisions and improve hotel operations.

CONCLUSION

The proposed hotel management system in C++ will provide an efficient and effective solution for managing catering and accommodation needs of guests. The system will have modules for reservation management, check-in/check-out, billing and payment, inventory management, employee management, and reporting and analytics. The system will provide several benefits, including increased efficiency, improved guest experience, and better management and decision-making.

The Hotel Catering Management System is a practical software application that will streamline the process of managing catering orders in a hotel. The system will provide an easy-to-use interface for customers to place orders and track their status, while also allowing staff to manage orders, menu items, and delivery scheduling. This project will demonstrate the use of C++ programming language and OOP concepts in developing real-world software applications.