Project Proposal: Hotel Management System

Project Title:
Hotel Management System
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The Hotel Management System is designed to facilitate seamless interaction between hotel guests and the kitchen or service staff. By using a user-friendly interface implemented in Assembly language, guests can effortlessly browse menus and place orders for breakfast, lunch, and dinner, enhancing the dining experience and operational Efficiency.

Objective:

● To develop an automated system that allows guests to place food orders without human intervention.
● To streamline the order processing mechanism, reducing wait times and potential errors.
● To provide a clear, accurate accounting of orders and transactions that improves the billing process.

Scope:

The system will provide the following features:
● An interactive console-based user interface where guests can choose from breakfast, lunch, and dinner menus.
● A backend logic system in Assembly language to handle order inputs, calculate total costs, and manage transaction processes.
● Basic error handling for input validation to ensure that orders are processed accurately.Methodology:
1. Requirements Gathering:
● Consult with hotel management to understand their needs and expectations from the system.
● Gather input from potential users to refine the system's functionality.
2. System Design:
● Define the overall system architecture, including the user interface layout and the backend processing logic.

● Design data structures for storing menu items, prices, and orders.
3. Implementation:
● Write the Assembly code for the user interface, including menu displays and user prompts.
● Implement the logic for handling orders, including calculations for totals and processing user payments.
● Integrate error handling mechanisms to manage incorrect inputs gracefully.
4. Testing:
● Conduct unit testing on individual procedures to ensure they function as expected.
● Perform integration testing to ensure that the system components work together seamlessly.
● Solicit feedback from trial users and refine the system based on their experiences.
Expected Outcomes:
● Reduced order processing time by at least 30%.
● Decrease in order errors by up to 50%.
● Increased customer satisfaction due to faster service.

Conclusion:

This project will leverage the precision and efficiency of Assembly language to create a robust Hotel Management System that enhances the dining experience for guests and streamlines kitchen operations. With careful planning and execution, this system will set a new standard in hotel service automation.