BSc (Hons) in Computer Science via GDSE

Module Code ITS1066

Professional Software Project in IT - Project Synopsis

Restaurant Management System

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Background of the business

Dhanuja Cafe Restaurant is a chain of restaurants that has been in business for over 20 years. However, like many other restaurants, Dhanuja Cafe faces a challenge in managing its orders efficiently and ensuring timely delivery to its customers. This can lead to delays, errors, and unhappy customers, which can have a negative impact on the restaurant's reputation and bottom line.

No of Employees

Dhanuja Cafe Restaurant employs a total of 14 staff members, including chefs, waiters, cashiers and staff . Despite having a dedicated team for managing orders, the current process is largely manual and paper-based, which can be time-consuming and prone to errors. The restaurant faces challenges in managing orders efficiently, especially during peak hours, and ensuring timely delivery to its customers.

Main services of the business

The main services offered by Dhanuja Cafe Restaurant include dine-in and takeaway. These services involve several business processes, including order taking, food preparation and billing. The current order management process involves waiters taking orders from customers, manually entering them into the system, and passing them on to the kitchen. The kitchen staff then prepares the food, which is delivered to the customer by the waiters. While this process works, it can be slow and prone to errors, especially during peak hours.

IT solution

 I will develop a desktop-based restaurant orders management system using JavaFX and Java programming languages. The system will have features such as order management, a kitchen display system and reporting and analytics. This will help Dhanuja Cafe Restaurant manage orders efficiently, reduce errors, and provide real-time updates to customers. The system's reporting feature will also provide valuable insights to help the restaurant make data-driven decisions and improve its operations. The system will be user-friendly, intuitive, and can be accessed from any desktop computer or laptop.

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