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AUTOMATED CATERING ORDER MANAGEMENT SYSTEM

This article mainly studies the design and implementation of the online ordering system, analyzes the current situation and development trend of the online ordering system, and realizes the Java-based online ordering system according to the demand analysis and overall design.

INTRODUCTION

Through the online meal ordering system, you can prepare a nutritious and affordable meal for you, your family, friends, etc. Realize the collection, processing, sharing and reuse of customer ordering information, improve the level and efficiency of catering business, and achieve a more convenient, faster and more effective meal delivery business than telephone ordering. Through the inspection of the order process, the comprehensive analysis of the business details, combined with the most advanced software development technology, the digital and networked management of orders has been realized.

I. AIM AND OBJECTIVES

The purpose of Automated Catering Order Management System is to provide a complete take-out ordering service platform for restaurants, customers can understand all the dishes of the restaurant through the website and can directly order food operations on the website. Select the desired dishes and add them to the shopping cart. In the shopping cart, you can modify the added dishes and view the total amount. Fill in the phone address when placing an order, and you can check the order status at any time. On the site, dishes are categorized by category, and the homepage recommends daily discounted menus to users. This website is very fast and convenient, and you can see the menu directly and clearly, which can reduce the time for customers to go to the store to choose a meal. Efficiency is improved for everyone involved in restaurants.

The goal of the project that develop web application is to create an online system, which named Automated Catering Order Management System. The application gives customers access to all the information about the restaurant's dishes. Managers of restaurants can understand and contact all online ordering information through the application, then make a series of related operations. The main functions include the following parts.

- Main Menu: classified and displayed according to the food category

- Shopping Cart: ordered items are listed in the shopping cart

- Online Ordering: customer confirms the order, restaurant receives order

II. ADVANTAGES

Online food ordering informs and digitizes the traditional transaction process. On the one hand, information flow replaces face-to-face transactions, which can greatly reduce manpower and material resources and reduce costs; on the other hand, it breaks through the limitations of time and space, allowing transaction activities to be carried out at anytime and anywhere, thus greatly improving efficiency.

Online ordering enables the catering industry to enter the information market at a lower cost, making it possible for small and medium-sized enterprises to have the same information resources as large enterprises. Its open feature creates more trade opportunities for enterprises and improves the competitiveness of small and medium-sized enterprises.

III. IMPLEMENTATION

To compile, debug and run Java programs, you first need to install JDK (Java Development Kit), and you need to download different versions according to the platform you are using. After downloading and installing, you need to configure the environment variables, its role is to allow the application to find the required path quickly and easily. After the database management software MySQL8.0 is successfully installed, SQLyog should also be installed as the visual running interface of MySQL8.0.

- Operating System: Windows 10/11

- Database: MySQL. MySQL is one of the popular relational databases. Compared with other database management systems (DBMS), MySQL has the advantages of small size, complete functions, and quick query. MySQL is competent for general small and medium-sized applications and even large-scale applications

- Presentation Layer: HTML, CSS, JavaScript

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