

Design and implementation of mobile terminal ordering system based on PHP technology

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Abstract

with the emergence of the Internet boom, people's quality of life is improving, city distribution has also become a contemporary catering industry a unique service. This system USES MySQL as the database, Apache as the system server, Window as the system operating environment, and USES PHP language and web3.0-based front-end technology to write. Finally realized the commodity classification, the commodity detail, the commodity place an order, the registration, the backstage management five function modules. In the end, we will develop a ordering system for mobile phone users, and make it more convenient to purchase vegetables by means of technology, so as to save more time and energy for the general public.

Keywords

PHP; Mobile terminal; Web3.0.

1. Introduction

Today, with the rapid development of the Internet, more and more business personnel begin to take advantage of the Internet tide and start a lot of online and convenient commercial marketing. Taobao, jumei, Meituan and other commercial entities that use the Internet to operate have gradually developed in the wave of the Internet. The more important reason is that the development of the Internet trend is the mainstream of the future, and it is a development project strongly supported by the state. The emergence of the ordering system is also a small reflection of the development of commercialization with the help of the Internet. At present, the overall development of the food and beverage industry in the country is good, the emergence of online ordering system, shows that the new generation of farmers are also on the network of the flight, good at seizing the opportunity to seize the profit to improve their share in the food and beverage market, increase their competitive advantage. Through the online ordering and ordering management, but also shows the Internet in the promotion of food sales and profit margins brought by the benefits.

2. System development environment

2.1 Introduction to Apache web server

Apache HTTP Server is a WEB Server of the Apache software foundation, and the source code is open to the public. Capable of running on most computer operating systems, and Apache has the characteristics of fast, reliable and widelyUse.

2.2 Introduction to MySQL database and PHP technology

MySQL is a relatively common small and medium-sized database management application system. It has the better construction, the management, creates the different request type data table and saves the different data, this has provided the more convenient, the more reliable storage and the use and so on function characteristic for the data. PHP is a hypertext preprocessor, its syntax is relatively unique, and is a mixture of C, Java, Perl and PHP to create a new syntax in one, support all popular databases and operating systems, generally used for small and medium-sized website developmentTo send.

2.3 Amaze UI framework

Amaze UI is a mobile-first cross-screen front-end framework developed for HTML5. It USES CSS3 to do animation interaction, and takes mobile-first as the core concept to adapt to all screens and finally adapt to mobile

The trend of dynamic interconnection.

2.4 SublimeText3 editor with HBuilder editor

The SublimeText3 editor is a powerful code management tool. Because of its lightness, quick opening, and SublimeText3 editor, it is not only available in a wide variety of Windows plugins, but is loved by most programmers. It runs perfectly under the operating system, and can also run smoothly on Linux, Mac OS X and other operating systems. SublimeText3 can be used to write PHP statements during the development of the ordering system. The HBuilder editor is also a powerful code management tool. However, it is only suitable for static pages and APP pages, especially for the production of mobile pages. HBuilder editor can not only smart prompt HTML5 tags, but also effectively prompt CSS3 new features. In the process of making the front-end page of the ordering system, HBuilder is used as the front-end page editor, which can achieve twice the result with half the effort.

3. Feasibility analysis of the software

3.1 Technical feasibility analysis

The feasibility study and analysis of the technology is very important and also the core problem of system development. The system PHP+Amaze UI technology. PHP technology is very popular in many web sites. The technology to be adopted is in the stable and mature stage of development, because it is more convenient for the public to accept. Amaze UI was used as the front-end development framework of the system with good compatibility and maintainability. This will PHP and AmazeUI combined, together with the development of mobile terminal ordering system, will be better to achieve the functions of the system.

3.2 Economic feasibility analysis

The development of this system is to make it convenient for users to buy vegetables, save time and improve work efficiency. According to the system design and development of the development environment and related technology requirements, do not need to buy equipment and other resource needs, the system for personal use of ordinary computer equipment and download and install the network environment of the free editing development software can be developed by memory. Therefore, the design and development of the system do not need any cost investment, only need personal time investment.

3.3 Other feasibility analysis

The development of e-commerce has entered a period of rapid development. Now many e-commerce websites have adopted this combination of native and Web to produce apps to reduce costs and comply with the development of the network era. Great development opportunities provide convenient conditions and feasible environment for the research of this system.

4. System analysis and design

4.1 System requirement analysis

PHP technology based mobile terminal ordering system, mainly for the user buyers and sellers, that is, ordinary users and system administrators. For the user set the user login, user registration, commodity classification, commodity details, commodity ordering, commodity search, customer service, call sellers and sharing functions. For the system administrator set up integrated management, order management, classification management, commodity management and other modules. The integrated management module includes password modification, attachment management, etc. In the order management module contains the order details and member management; The classification

management module includes adding classification and classification details; In terms of commodity management, it includes uploading commodities and commodity details.

4.2 System function module design

The main advantage of a mobile ordering system that can be recognized by the society and users is to save the time wasted in daily life, and the purchased dishes are green and pollution-free. In order to better improve this system, I designed five functional modules for commodity classification, commodity details, commodity ordering, registration and background management. Commodity classification module: this module contains all product information. All goods can be divided into vegetables, fish, fruits, dairy products and so on. When visitors enter the system, they can browse all the dishes by category, which is very instructive and convenient for users to purchase. Commodity detail module: this module contains detailed information of commodity, such as picture, name, price, net content, specification, introduction, etc. When users view the commodity information, they can quickly and easily learn the attributes of the commodity, which is convenient for users to select and purchase. Commodity ordering module: this ordering system adopts the mode of city distribution and cash on delivery, so that consumers can get high-quality commodities in the shortest time while their interests are guaranteed. When the user selects the item he wants to buy, he can click buy now or add it to the shopping cart and click order now to complete the order. Before and after placing an order, consumers can call the merchant to inform him or ask for details. Login and registration module: in this module, tourists are not allowed to place orders if they have not become users of the website. If they have not yet registered, they need to click registration to fill in the information for registration. After registration, they can only purchase after logging in successfully. The receiving address when the user registers is the place an order address later period namely. Background management application module: it mainly includes integrated application management, order application management, product application management and advertising management and other application management module. The integrated management includes changing the password, exiting the system, etc. Order management includes order list and member management, in which the order list item can be modified the status of the order, real-time grasp the most accurate order status; In the item of product management, products and product classification can be managed; Advertising management can be the system's home page advertising round to modify, to facilitate the timely update of website information.

5. Realization of the system

5.1 Realization of commodity classification module

The commodity classification module classifies all the items in the system according to the category. Each class name has a unique id and each commodity has a unique sortid. The commodity sortid corresponds to the commodity classification id. Thus realizes the commodity classification.

5.2 Implementation of commodity ordering module

Before the user clicks to place an order, first judge whether the user is registered and logged in. First, check whether the user exists in the user information table cd_user. If false is returned, the user will be prompted to register personal information on the registration page. If it returns true, it will judge whether the user is logged in or not; if it returns 0, it will jump to the login interface only; if it returns 1, there will be no prompt, and the user can place an order directly.

5.3 Realization of login and registration module

In the login module, use the mobile phone number to log in. After the user enters the mobile phone number and password in the login interface, click the login button to log in. After clicking the login button, the system first determines whether the user exists. If it does not exist, the system prompts the user to register. If it does exist, the system finds and matches the cell phone number and password in the cd_user table. If it returns true, it will jump to the home page of the system; otherwise, it will prompt you with a wrong input of mobile phone number or password. In the registration module, users fill in their basic information such as mobile phone number, name, harvesting address and

setting password according to the prompts on the registration page. Click the registration button to complete the registration. When the registration button is clicked, the data in the form will be sent to the register.php page by POST. Finally, the regular matching will be used to determine whether the information entered by the user meets the standard. If false is returned, the user will be prompted with the corresponding error; if true, the registration will be prompted with success.

5.4 Implementation of background management center module

This system background management center front page is EasyUI framework in the existing template form. Then embed the iframe frame to achieve the effect shown by clicking on the right side on the left side. Background data USES PHP embedded method for data binding. Finally realized the integrated management, order management, product management and advertising management functions of the four modules.

6. Testing and maintenance

6.1 Website testing

This website is a PHP technology suitable for mobile applications of a Web ordering software. This software can be tested not only on PC, but also packaged as an APP. By using the Android browser configuration, it can be packaged as an APP for testing. More importantly, the database and project can be moved to the cloud server for testing anytime and anywhere through the environment configuration. The site's testing is divided into pre-test preparation, requirements analysis, test execution, bug submission, test summary 5 major. Pre-test preparation is to configure the test environment required for testing. Requirements analysis is to understand the objectives of the test, and the test object of the correct implementation effect; Test execution is the beginning of the execution of this test; Bug submission is a summary of problems found in the testing process; Test summary is a summary of the software problems found in the test process, and make targeted modifications to avoid the same problems next time.

6.2 Maintenance of the website system

In the development and later operation of the software, there will inevitably be a lot of problems. Coupled with the changing requirements of users, there will be requirements that need to be updated, and the software will need to be updated accordingly, so there will be software maintenance problems. Software maintenance is mainly divided into three parts, basic maintenance, security maintenance, related maintenance. Basic maintenance includes the maintenance of static Web pages in the software, the addition, deletion and location movement of display information; Function module add, delete and other related maintenance. Security maintenance including database import and export, database backup, database background maintenance and emergency website recovery and other maintenance work. Related maintenance including the system of the relevant files to add, delete, modify and so on.

7. Summary

The main function module of the mobile terminal ordering system is divided into two major modules: one is the commodity display module, for users to use, convenient for users to operate; Second, the background management module, for the seller to use. Different modules have different functions of use and management, and provide different functional selection modules for system users with different requirements, so as to meet customers' own needs and realize the function of the system. After nearly five months of efforts, finally completed the research, design and implementation of the food ordering system. During the research and development process of the whole project, I encountered both the problems I had encountered in the previous study and new problems. In the process of dealing with these problems, what I feel most is that we cannot focus on the final result of this problem and the solution to it. Instead, we should focus on the thinking of why this problem occurs and how to avoid it, which will improve the development speed of the system more effectively.

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