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Campus Logistics Service Platform

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Abstract: In order to meet with the requirement of the campus shopping, we put forward the design of campus logistics service platform to serve students' shopping. In the platform the campus service provider put their sale of foods on the system to meet the students and the students can select and buy their foods by the service platform. Meanwhile, the distribution system formed by the provider and the student of the logistics supply chain and can be complemented by campus logistics distribution. By the platform campus logistics service can meet the commercial requirement of students and businesses.

Keywords: Logistics service platform; Android; User interface; Mobile platform

INTRODUCTION

With the e-commerce accepted by more and more people of convenient and fast form of transactions, online booking come into being and soon be welcomed by everyone [1-3]. The application of the Internet and the popularity of mobile phones for millions of households, it provides a good space for network booking. At the same time, online ordering service is intuitive, effective and convenient, which is incomparable to the traditional telephone booking service. Survey data show that people are more willing to choose online ordering services, especially for the worker and students [3,4]. Shop online ordering service seizes the network consumption and any potential consumers to meet the short board of traditional catering industry business expansion.

With the popularity of smart mobile phone [5-8], mobile phone APP becomes the most popular service platform, and mobile phone system in the Android system is one of the most popular intelligent mobile phone operating system, and the Android system provides convenient embedding capability, so many mobile phone APP mobile phone platforms can be easily placed.

The daily consumption survey of teachers and students to obtain the merchant information is mainly through business propaganda or students oral communication, and lack of information integrity, so the business information and goods cannot be fully spread so that the business relationship between supply and demand of teachers and students exits, but cannot fully meet the needs of both supply and demand. Therefore, a regional campus information service platform will be developed to meet the needs between teachers and students for shopping.

At the same time, with the establishment of the university area and the attraction to the public, the tourism in university area has become one of users, especially parents of student. The campus student exchanges and school personnel in colleges and universities of tourism require a large number of shared business services for such users. It easily add platform by using the Android mobile phone object to this kind of users and also like campus teachers and students who can enjoy commercial information service [8,9].

Modern logistics is a new type of integrating management information, transportation, warehousing, storage, handling and packaging logistics activities together [10,11]. Through the optimization of various logistics factors and rational allocation, it can improve logistics efficiency and reduce the total cost of social logistics, meanwhile provide customers with more comprehensive and diversified logistics services for the whole process of logistics.

User interface refers to the user's operation interface, including mobile APP, web pages, smart wearable devices, etc. [12-14] User interface design mainly refers to the style of the interface and the degree of beauty. In addition, the overall design of user interaction, operation logic and interface aesthetics of software is another important gateway. Good user interface is not only to make the software become personalized and tasteful, but also to make the operation of software comfortable, simple and free, and fully reflect the positioning and characteristics of software.

Mobile development is also called mobile development, or mobile network development which refers to mobile phones and other portable terminals based on the corresponding development work [12-14]. Because these portable devices are basically wireless internet access, it is also known as wireless development. Mobile application development is a collection of processes and programs for writing software for small and wireless devices, such as smartphones or tablets. Mobile application development, similar to Web application development, stems from more traditional software development. But the key difference is that mobile applications usually write software using the unique features offered by a specific mobile device.

METHODS

User interface design is a virtual user interface, generally refers to user interface interaction software, operation logic and interface beautiful overall design [12-14]. Software design can be divided into two parts, coding design and user interface design. User interface literally means the two parts of the user and interface, but in fact it also includes the interaction between the user and the interface. Considering the reasonable layout needs in user interface design according to the user browsing it should be designed from the top to down and from left to right, which should be avoided common business function keys. The functions of user interface design include three aspects, one is graphic design, that is the shape design of the products of the software products. Two is interaction design, mainly lies in the design software operation flow, such as the tree structure, the operation standard and so on. A software product needs to do before coding is interaction design, and to establish interaction models and interaction specifications. Three is the user test, its goal lies in the appearance of the graphic design and the rationality test of interaction design.

The range of mobile phone applications is very broad [5-9]. In a narrow sense, it can be said to be a software on a mobile phone. In general, it can be said to be a network service of a mobile terminal. There is no absolute limit to that. The main purpose of mobile phone applications is to provide better user experience and services, to facilitate the operation of mobile phones, intelligent, diversified. Android software development is the process of building Android software or software components according to user requirements. Android software development is a systems engineering that includes requirements capture, requirements analysis, design, implementation, and testing. Software is usually implemented in some programming language. Software development tools are often used for development. Android software development is one of the mobile development. Web app is not dependent on specific equipment, but the mobile of APP relies on specific devices.

RESULTS

Campus logistics service platform include functions of user and shop [15,16]. For the user, unregistered users can browse the goods or for registration; and for those users who registered can login to browse the goods, and can join the purchase of cars, of course, if you don't like, you can delete it in the shopping cart. Users can create or modify the delivery address in personal information, and the way of payment can be selected after the completion of the purchase form which is showed in the view order information, after confirming the receipt, users can make comments for taste, speed and other aspects. For shop, shop administrator can modify information, update food information so that the users can make view of the information timely after login and register. In order to complete the order shop administrator can view the information of orders and users. When users confirm the receipt of goods, orders will be moved to the completed orders, also can get a variety of dishes statistics for a period of time in the sales volume, so as to know the most popular dishes or sales at least, then they can adjust menu to fit for the requirements of users. The way of payment can be set by all kinds of cash. For the function of comments, shop administrator can view the evaluation of the users that can zoom in the distance between the users and shoppers, also can improve the food.

In the function design, the system has some features [10,11]. First is the statistics of manufacturers of goods sales, customer orders for key customers, the original scattered data value, the rich and intuitive expressed form for the enterprise management decision to provide direct, first-hand data support. Second is the system using the frame development, and the front page uses the very popular technology to easy complement of user interface, so the efficiency is high, and the

interface is relatively beautiful. Background development uses the modular framework, as well as the new technology of Web to remote call of customer relationship management system for communication. Third is to make full use of the basic data of users to dig out the potential demand of users and give full play to the value of data, such as the basic data in the courier information, address information, attachments information, the distribution of goods information. From the address information, the geographical distribution map is drawn by modular, and the depth analysis results of these data provide the direct decision support for the operation of the shopper. Forth is the repeat operation of the database in encoding such as basic function of creating, deleting, updating, and so on. Each class will be written by some of the basic methods in general feel redundant, so the public class can be considered for the same similar methods, and some special methods, is created in the concrete class independently so as to improve the modular degree code. Fifth is the technology management for the system users by the models, which provides a convenient construction. The platform construction is a project from the source code to compile, test, operation, packaging, deployment and operation process, it can complete the construction by running a command with model, but also can regulate each stage and facilitate collaborative development.

The shop module has two sub modules, namely merchant information and specialty food. Campus module is a summary information function. When the user enters the shop module, the list will appear in all the shops. When a user selects one of the hotel, he will enter the hotel information interface where contains the hotel information and the characteristics of delicacy. The characteristic food belongs to the auxiliary module of the main module of the shop, when the user chooses to see the characteristic gourmet module, a list of the specialties of the shop is displayed. By the campus business district shop information collection, it can meet with the demand of users of the shop business district so that there is a clear understanding of each shop’s specialty food so that user can choose the most suitable tenants.

Each module's design is for accurate assurance to the user and the business district business information. By the business information integration, users can use the mobile phone client to access the database to get the information they need, to a large extent facilitate the school life of the personnel, to improve the efficiency of information dissemination and information acquisition integrity.

Now in universities, campus shopping becomes the main model of students' consumption, whether in daily life or food consumption demand. Campus shopping demand is more and more strong, and brings a variety of consumption patterns, such as group purchase. In order to meet with the consumption demand of students and shoppers quickly and effectively, we use the user interface development and mobile development combining the logistics needs of shopping, and design the campus logistics service platform, which not only makes the system page show more concise, beautiful, but also improves the browser compatibility of this system, and enhance the user interaction with the client. The platform can meet the needs of students and shopper. From the implementation of the system, the use of user interface framework and user interface technology to build campus logistics system can reduce workload, improve code reusability, and make the code easier to maintain. From the function of the system, it not only meets the needs of students shopping, but also meets the merchants' sales demand fast and effectively.

This system exist in the daily life, the aim is the design and implementation of the regional information management system for teachers and the daily commercial service platform. The design of the main function modules is to achieve interactive mobile phone client and server, so as to meet the information needs of commercial service platform. Regional information management system in this paper is to present the campus business information collation, classification, and to show users demand by various functional modules. It is helpful to get information on daily life, at the same time, this software can also help students, service areas and tourist customers around the school. The system has realized the basic campus commercial service function, and can satisfy the teacher and student's demand in the function.

The benefits of mobile APP development for the enterprise are quite big, the cost of mobile network is low, the communication speed is fast, and the potential mobile network market is confronted with great potential [7,8]. Mobile phone website APP needs to combine its own characteristics and user needs, and closely integrates with its own business so that can form complementary with traditional enterprise services. In the mobile phone APP website development, it needs to pay attention to the construction process of thinking of the mobile network, and avoids copying the traditional business mode; and needs to pay attention to the fine combining with the characteristics of mobile network, the personalization, socialization, etc.

CONCLUSION

In this paper, we design the campus logistics service platform to meet with the demand of campus shopping. For shops, online booking can be filled with color, pictures, instructions to strengthen the product publicity, and greatly reached the color type requirement, reduced production costs. and shoppers got more accurate ordering information. The system avoids verbal transmission of information errors, and optimizes the service. The network will not be as busy as the telephone or shop, even in the rush hour, and the processing of ordering is more and more comfortable. Just watching the screen point printing, user can send food under the kitchen side. The address is never lost, and is always the electronic menu, even with the promotion of online meal ordering system and makes more guests, not sent leaflets, save a publicity and labor costs. There is a better way to order, and online ordering has become a powerful addition to the restaurant, expanding passenger flow, so as to improve the overall volume of business. User can offer some job study jobs to help some needy students in your family. For users, we can stay at home to get food followed by the comparison of different restaurants, convenient choice, expand the range of choices, and can be booked to avoid the congestion at the peak of the meal in advance.

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