Design and Realization of Community Service System Convenient for People

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Abstract. With the development of society and technology, it is an important part of the urban modernization construction to community service convenient for people. Community service system convenient for people will be established and improved constantly in the urbanization, gradually achieving intellectualization, humanization and facilitation. This paper describes current situation and existing problems of the development of community service in analyzing the structure of community service system, putting forward a design and realization of community service system convenient for people. Service composition is designed and planned, and the development direction of function module is described to solve the problem of realization. It has a theoretical and practical significance for the construction of community service system convenient for people.

Introduction

With the development of society, it is an inevitable form to community service in the future urbanization construction. According to the current situation of social development, the function of community includes to management function, service function, security and education function, safe and stable function \[1\]. This paper mainly describes the function of community service to guide the research of community service system. All levels of management and service institutions provide relative service for maintaining community development and stability \[2\]. The content of the community service includes many aspects. Its framework of structure is showed in Fig. 1.

![Diagram of Community Service Framework](#)

With the continuous improvement of people's living standards, the chasing of the ability of community service is improved constantly for people. The requirement of residents' daily life is satisfied by establishing a comprehensive system. It needs to own higher, faster and more powerful
management service ability. So, the intelligent, humanized and convenient community service system will guide our future life [3]. The community service system will dominate the future market of community service, demonstrating its value in daily life.

**Existing Situation and Problems of Community Service System**

The community service of our country is changed by the large community of the people before the reform and opening up [4]. The research and development of community service system are not ability to apply in reality. It needs to be improved and developed. But with the development of internet, cloud computing, mobile internet, information intelligent terminal and so on. The application environment of community service system is constantly improved and will applicate into the life of people. The construction of community service system is put into not unified and concentrated as well as comprehensive cost high. It will hinder to the development of community service system. There are a little of city have constructed an intelligent residential district, lacking of overall planning and systematic construction [6]. At present, the community service system also gradually began to promote and experiment, disappearing a relative innovation program about community service system convenient for people such as 020 service platform and software development of service system as well as intelligent system [7].

At present, with the development of society, the study of community service system has made certain progress in our country, but existing to need to solve problems. 1) System of information level is not high. 2) System integration is not high. 3) Data sources is restricted. 4) System software development is not enough.

**Design of Community Service System**

**System Composition.** In this era of information, networking and intelligence. People's living standards are rising. In order to meet the growing needs of people, it need to design community service system include efficient, convenient, intelligent and humane. According to the purpose of serving the community, this study designed a fully functional community convenient service system. The module of the system is shown in Fig. 2.

![System structure module](image)

The user can send the relevant service request through the user center module of the service system operation platform. According to the request, the system will sent to the corresponding processing module respectively. If it is a request for information retrieval, search for the matching information in the resource pool, if it is a request for a transaction, it will be processed directly or transferred to the third party. The request that sent to the service convenience center, processing of related services by the center of reception. the request that sent to community service database, if it
is a request for data query, searching for relevant information in the system database directly, if the user wants to upload data, upload the data, and then the system to deal with the relevant problem.

**Function of System.** The purpose of establishing a community convenience service system is to provide community residents with convenient and efficient service, for this purpose, the system should pursue the following.

1) To form a unified community service management system
2) The relevant community convenience services to deal with unified, such as medical services, daily life, community services and information services, etc.
3) To realize the network, information, process and standardization of community service work
4) Enhance daily life exchange and cultural interaction among community residents
5) User-friendly interface and operating modes.
6) Uniform and standardized community service database
7) Based on the above content and combined with the development of IOT, cloud computing, mobile Internet and mutual information technology, the community convenience services system designed in this paper includes the following functions, which is as shown in Fig. 3.

The functions of community convenient service system are divided into four main directions: medical care, daily service, political service and information service [8].

The purpose of medical service is to facilitate the community residents to see a doctor, the system's medical services include registration, appointment, payment, medical advice, medical first aid, social security reimbursement and medical records.

The purpose of daily service is to help residents to handle chores at home, the functions of daily service of the system include express delivery service, send a meal, dry clean, hotel reservation, housekeeping service, living tips and living payment.

The political service is designed to facilitate the community residents to deal with relevant government affairs, and which includes community notification, property management, property payment, appliance repair, transaction advisory and community interaction.
Information service was designed for the convenience of residents of the community to get more the relevant information they need, and it include online shopping, travel recommendation, weather forecast, news information, electronic library, traffic information, ticket booking, online consultation and community map.

Implementation of Community Convenience Service System

Community convenience service system is a comprehensive project. It involves a wide range of neighborhood and a wide range of technology, difficult requirements. To achieve its desired function and application results also need to continue to work through continuous efforts and breakthroughs. Explore the realization of community convenience services system from the following three aspects.

**Information Applying.** Along with the storage, the emergence and development of computer, network technology, information in people's life plays a more and more important role. The application of community service system platform must be based on the information data. Each service contains information access, retrieval, processing, and storage in the system. To obtain accurate information, the system must be searched through the database. This requires the developer of the system and the various relevant parties to establish mutually beneficial cooperation relationship. Data can be shared between systems.

**Software Development.** The community service system will bring great practical value to people's life, but the software involves a lot of problems. Existing systems have iOS Android systems and windows systems, the three major foreign systems technology is relatively mature. [9-10] Based on the current market situation, In order to increase the community service system for the convenience of experience, the design of the system needs to be developed in the Android system environment.

**Hardware Configuration.** The hardware configuration of a complete community service system is an important component, which includes a display, a central processing unit, a memory and other related services. On the basis of the study of community convenience services, the name of "a smart express cabinet with iris recognition" of the utility model patent has been applied. (Patent number: 2015211313512546).

Conclusion

Community convenience services system has a large market in the future. It can provide convenient and quick service for the daily life of community residents, so that people really feel the value of the system. This paper introduces the design and implementation of community convenience service system. In view of the present situation of the community convenience services in our country, this paper analyzes the existing problems, puts forward the structure design model of the community convenience service system, and introduces the functional interface of the community service system. Finally, the realization of the system needs to be solved. With the continuous development of science and technology progress, the realization of community service system will be more and more close to us. People's lives will be better and better.

References


