The hospital scientific research information system based on WeChat platform study

Qingxi Huang

The First affiliated hospital of Chengdu medical college, Chengdu, China, 610500

66902671@qq.com

Keywords: Hospital information management, scientific research information, WeChat software, program design

Abstract: This paper introduces the problems existing in hospital scientific research management and information construction, puts forward the design idea of hospital scientific research information system based on WeChat platform, and designs the theoretical framework of WeChat scientific research information construction, user registration application process framework, system information operation logic process, etc. It is pointed out that WeChat has the advantages of fast construction speed, low operation cost, high information efficiency and great development prospect.

1. Introduction

The development of hospital scientific research information construction is relatively backward in many hospitals. The transmission of scientific research information is still mainly in the traditional way. For example: paper documents, telephone notices and reminders, on-site meetings and so on. Although some hospitals have introduced and developed their own office management system, which can realize the online dissemination of scientific research information, users must log in frequently to obtain scientific research information [1]. Scientific research information has not been notified to individual researchers through SMS. If use short message group send, it is short message group send cost is higher, 2 it is the pertinence that lacks information spreads. People who do not need scientific information may also receive it. It is difficult to realize the classified transmission function of scientific research information [2].

Therefore, at present, some methods of scientific research informatization have disadvantages. Such as: high cost, blind dissemination lack of information classification, information dissemination efficiency is low. Therefore, how to make use of the existing network resources to realize the informationization development of hospital scientific research with low cost and high efficiency deserves the attention of hospital scientific research managers.

Based on WeChat platform, this paper develops hospital scientific research information system, which is an effective shortcut.

As a powerful real-time communication software, WeChat has exceeded 1 billion users in the first half of 2019 [3]. It is the third largest communication software in the world. It has many functions such as communication, telephone, file transfer, picture and video transmission, group and mobile payment [4]. Because WeChat is widely used and has powerful functions, and WeChat allows customers to develop small programs such as public accounts, it is very effective and fast to realize the informatization construction of hospital scientific research based on WeChat [5]. Users can not only implement communication, notification, and do not frequently login account. Therefore, this paper designs a hospital scientific research information system based on WeChat. The system provides a theoretical method for the practice of hospital informatization.

2. Theoretical framework design of WeChat scientific research information construction

The theoretical framework mainly includes 3 dimensions and 16 subordinate dimensions. The three dimensions are user, implementation approach and function.

User analysis of hospital WeChat scientific research information system: medical staff, including doctors, nurses, and other staff engaged in scientific research in the hospital; Hospital managers, such as scientific research management workers, administrative managers; Higher authorities, since many scientific research projects are funded by higher authorities; Medical students participating in hospital research projects and the public concerned.

Implementation approach: mainly through the existing platform services of WeChat software, such as WeChat public account, used for information publishing and announcement, WeChat enterprise, more functional acquisition, WeChat subscription, non-real-time information dissemination, WeChat program development, allowing small program innovation and development, WeChat payment, such as payment, remuneration, etc.

Third, the composition of functions. Such asInformation announcement, Information upload, User registration certification, Collection and payment, Collection and payment, Search and query.
The design of the above framework can realize the goal of scientific research informatization. See figure 1 for details.
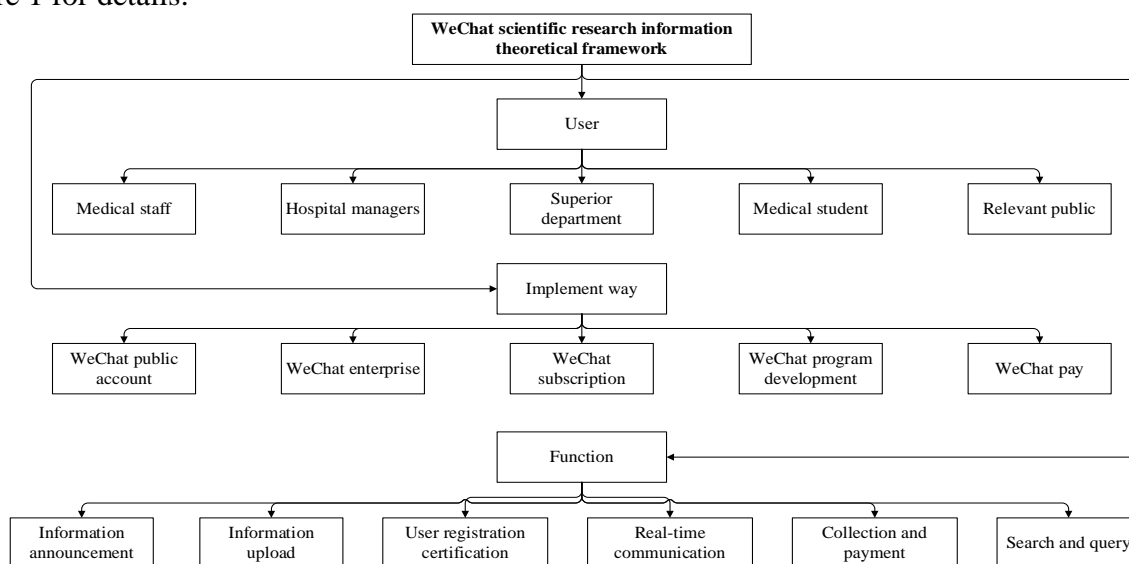

Figure 1 WeChat scientific research information theoretical framework

3. Framework design of user registration application process

A key task of WeChat scientific research information system is user registration and authentication. Because this system mainly serves the internal scientific researchers of the hospital, and is properly open to the public. So, the user must be authenticated. Only authenticated users can browse, download and use scientific information and services, while avoiding network virus attacks. The user registration and authentication process design is shown in figure 2.
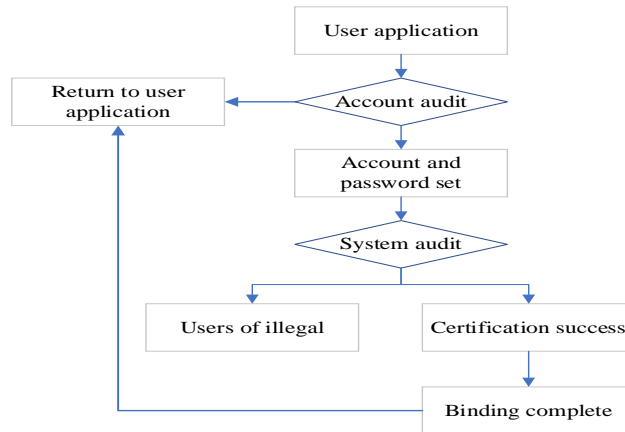
Figure 2 user registration authentication process

4. System information operation logic design

When a scientific information is publicly released, users in need continue to read, download, and execute it. Users end the process without requirements. Equipment in need will continue to be understood and communicated with system personnel. Some researchers will not participate in the system, or they will quit the system. Use relevant information and continue to carry out applications for projects that require continued participation, such as scientific research. Among them, the scientific research personnel will encounter the question, can through the system feedback, obtains the solution and the help. Those who continue to execute will download relevant forms and materials, complete scientific research application, submit or upload application forms, materials and results to the system. See figure 3 for the specific process design.
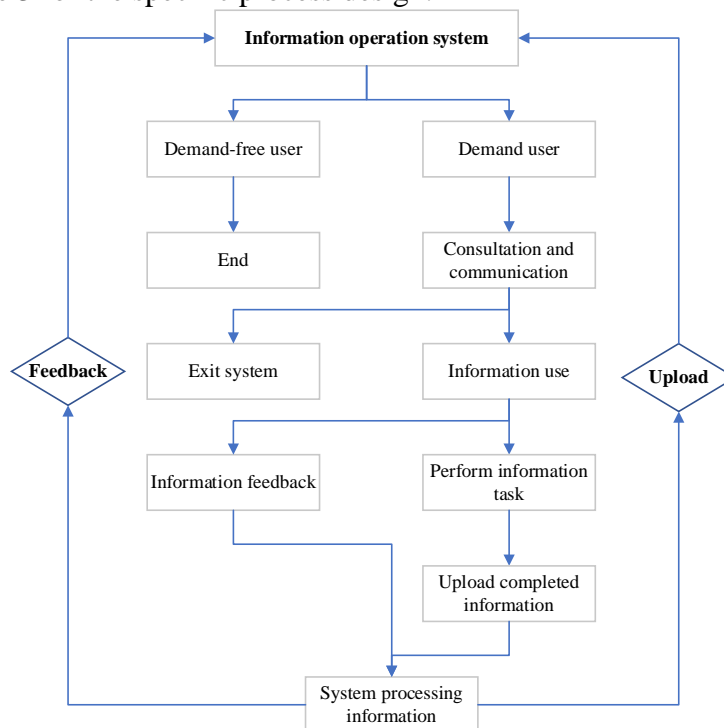

Figure 3 information operating system design

In short, hospital scientific research informatization construction based on WeChat platform has many advantages: rapid construction, low-cost operation, efficient management and communication, accurate information push, etc. It is a shortcut and reliable way of scientific research informatization construction in most hospitals in China, and it is worth popularizing and applying.

References

[1] Li gang. A brief analysis on the problems and countermeasures of hospital scientific research informatization construction. World's latest medical information digest,2019, 19 (90): 212

[2] Hu caiyun. Problems and countermeasures in scientific research management of research hospitals in China. Journal of traditional Chinese medicine management,2019, 27 (15): 38-40.

[3] Han weizheng. What else can WeChat bring to people. 2019.10

[4] Lei qiong, xie wenliang. Innovation of scientific research management service model based on WeChat. Journal of chengdu university of administration,2017 (2): 68-72.

[5] Zhang xingxing. Discussion on the application of WeChat public platform in medical informatization construction. Information communication,2019 (6): 146-147.