

RESEARCH ARTICLE

About Digital Library Personalized Knowledge Service

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Abstract: Based on the research on the personalized knowledge services of digital libraries, this article starts with two aspects of the main components and existing problems of personalized knowledge services of digital libraries, to improve the quality of personalized knowledge services of digital libraries. Perform analysis. It is concluded that the relevant personnel need to increase the degree of attention to the improvement of resource utilization, promote the timely reform of the digital library management system, ensure that the digital book use system is reasonable and complete, and deepen the grasp of user information and needs. People to help.

Keywords: Digital library; Personalized service; Knowledge service

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1 Introduction

With the rapid development and popularization of information technology, many public libraries have realized the transformation of digitalization, networking, virtualization and sharing. In this way, information transmission and acquisition are more convenient and fast, and it is also more suitable for the fast-paced life and learning of citizens in the new era. At the same time, because users' learning ability, demand and even personality are different, so if digital library wants to play a greater role, it is necessary to explore the personalized knowledge service of digital library. It has been proved by practice that the combination of personalized service achievement and knowledge service system is very helpful for the library to break through the shackles of practical details and improve the theoretical height of personalized knowledge service

2. The main components of personalized knowledge service in digital library

2.1 Knowledge organization system

Language tools that can express and explain human knowledge structure are collectively referred to as knowledge organization system. In addition to common language tools, tools such as classification, function word list, semantic network and even concept map all belong to the scope of knowledge organization system. Based on the knowledge resources and contents in digital library, we can regard the knowledge organization system as a kind of descriptive organization tool, which can realize the formalization of semantic model, organize and describe resource objects effectively, and further expand the semantic reasoning knowledge retrieval.

Throughout the development course of library for several decades, IT circles have always attached great importance to the research and development of digital library system, but IT is not until the discovery and application of knowledge organization system that the research and development of knowledge organization based on network environment is really triggered. In addition, digital library also needs to reprocess on the basis of integrating information resources, under the function of knowledge organization system, make the knowledge service of library more deep and wide, and further provide greater impetus for the specialization, semantematization and domain of library information retrieval function.

2.2 Knowledge service module

In the whole knowledge organization system, the knowledge service module is the only module that can directly face users, and it is also the window for users to enjoy personalized knowledge services. It contains functions such as intelligent retrieval and resource recommendation, and ordinary users can carry out good communication and

exchange through user excuses. Compared with traditional information retrieval, intelligent retrieval can realize deeper processing of full-text information. Based on keywords entered by users, extended concept retrieval can be carried out in knowledge tools of the whole network, which greatly improves retrieval recall rate [1].

3. The main problems of personalized knowledge service in digital library

3.1 The utilization rate of information resource integration is poor

At present, in the process of personalized knowledge service of digital library, many designers pay insufficient attention to the integration and integration of information resources, and the information resources construction is not based on the information needs of users, which makes it difficult to meet the personalized needs of users. The main reason for the poor utilization rate of information resource integration is that designers fail to effectively integrate the independent information resource system in the digital library and fail to take into account the maximum support that information technology can provide in the process of personalized knowledge service, resulting in low utilization rate of resources [2].

3.2 User information security is insufficient

At present, the personalized knowledge service of digital library security problem is more serious, with natural disasters, system vulnerabilities and computer virus, for example, can reduce the information security, therefore, for personalized knowledge service digital library user privacy protection is a problem that must be handled in time. Otherwise, users will not only worry about the problem of information abuse or disclosure, but also make the reliability of personalized service technology in the mind of users lower and lower, leading to their refusal to provide personal information, and then seriously affect the normal operation of digital library.

3.3 The permission setting of digital books is unreasonable

A lot of tacit knowledge in the digital library are need to dig out, but if the digital library and copyright or rights without coordination good relationship between publishers, book the rationality of the access permissions also cannot be assured, if this problem cannot get timely and effective treatment, will inevitably bring huge impact for the traditional copyright system. Especially in the context of users' increasingly high requirements for knowledge

services in the new era, the traditional usage system has been unable to adapt to the actual needs of today, so the corresponding update and reform must be put on the agenda [3].

4. Strategies for improving service quality of personalized knowledge in digital library

4.1 Pay more attention to the improvement of resource utilization

If you want to comprehensively improve the effect and quality of personalized knowledge service of digital library, the utilization rate of resources must be reasonably improved, which determines the quality and level of its service. Therefore, the related personnel must pay more attention to the improvement of the technical level of book information development and utilization. At the same time, the individuation of the knowledge service of digital library must rely on the high-quality talent team to provide users with a more comprehensive and broad search range on the basis of constantly improving the construction of digital library.

4.2 Promote the timely reform of digital library management system

Nowadays, our country's digital library management system must be reform in time, this is the most key to realize the personalized knowledge service, the basis of the relevant personnel on the one hand, to promote the organization management mode constantly updated, on the other hand also should pay attention to combining with actual demand, to build knowledge management system to guarantee safety and service mechanism. First of all, in the process of library management system reform, we should take personalized knowledge service as the basic idea, and establish the following objectives: (1) to create a learning organization to promote knowledge exchange; (2) To build a leadership system that meets the requirements of knowledge service; (3) To establish an organizational framework conducive to knowledge innovation and safety protection. The digital library design team must understand that the most important key point of library construction is to protect users' personal information and privacy from infringement while meeting their personalized knowledge needs [4].

4.3 To ensure the reasonable and perfect use system of digital books

If the digital library wants to provide the perfect personalized knowledge service for the users from all aspects, it must ensure the reasonable treatment of the problem of access to books. On the one hand, we should pay attention to the perfection of the digital library system, on the other hand, we should protect the rights of copyright owners, and promote the effective expansion of the rights of fair use of books. In addition, a better institutional environment for personalized knowledge service of digital library can also be provided by implementing the legal licensing system of digital books and publicizing the use mode and scope of innovative works ^[5].

4.4 Deepen the grasp of user information and needs

In the process of operation and development of digital library, it is necessary to master users' personal information and actual needs, which is an important basis for the smooth development of personalized knowledge service. Based on this, relevant units and relevant personnel must carry out in-depth investigation and research on users to comprehensively understand the needs of various types of users. At the same time, the creation of information activity environment should not be ignored, which can provide retrieval and service mechanism according to users' personal characteristics. At this time, user evaluation and information feedback mechanism should also be implemented accordingly, which is the most critical factor affecting the implementation of personalized knowledge service in digital library.

5 Conclusion

In a word, in the new era, the citizen's individuality is

more distinct. In the process of optimizing knowledge service, the digital library must also clarify the importance of individuality, which is the necessary way for the transformation of the library's future function form. However, in terms of the current situation of personalized knowledge service of most digital libraries in China, there is still a great space for progress. At this time, in order to comprehensively enhance the practical role of digital libraries, it is imperative to timely analyze and formulate measures for specific problems.

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