

Research on the University Library Information Resources in the Background of Big Data

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Abstract. The university library with the development of the times, the planning of literature information resource organization and development mode, showing the use and development of digital management and network information resources in university library, this project has become the subject of urgent need to explore in the University library.

Introduction

With the vigorous development of Internet technology and continuous social progress, information resources, as a kind of data, plays a very important role in the development of economy, society and universities. Nowadays, people are gradually aware of the importance of information, which is an essential information resource management organization of knowledge and information collection, organization, storage and transmission. In the context of the rapid development of today's network information technology and a variety of growing and expanding information, libraries are facing a tremendous test. The literature resources in traditional environmental can no longer meet the diverse needs of students and faculty, and more updated and more complete management model is needed to improve the library development. Library management model also needs to make full use of the network resources to optimize the information, service objects and service methods, thus providing students and faculty with better services. At present, the problem to be solved by university libraries is how to improve the management of library information resources, strengthen the sharing of information to let more information to serve the readers, improve the overall quality of the students, faculty and the university.

Analysis on the Problems of University Library Information Resources Existing in the Information Environment

A. Lack of Information Resources Service Mode

Nowadays, network information technology has been widely applied in various fields. The library users have high requirements for the access of library information. Therefore, the types of library information resources and mode of serve are expected to be richer. However, the information resource service modes of most university libraries are in the singular traditional management mode, and the quality of service is relatively low, which also lead to the incapability of libraries as a main body of various information resources and utilization to compete with other information institutions.

B. There is a Big Difference and Complexity in the User Management Interface.

In the library information resource management, resources of library data increase gradually. To meet the need of the library workers and the reader's need of book retrieval, the retrieval software in the entire management system continues to increase, which also leads to the user interface of interface service become more and more complicated. To make appropriate amendments on the webpage, the library digital resources also needs to increase in correspondence, and the new search interface is added. As a result, the user interface has increasing complexity and differences, which also significantly reduce the user's interest, affect the efficiency of resource utilization, thus restricting the implementation of library services.

C. The Big Gap between Data Format and Retrieval Path

Most of the colleges and universes have purchased a more of Chinese and periodicals of the full

text related network resources in the process of library information management, but these network resources should be classified as the collection of periodical resources. However, the network resource management of the majority of colleges and universities has not been included in the scope of library collection periodicals. At the same time, the retrieval in most abstract databases or discipline periodicals, there are not links related to the abovementioned full-text resources. The data format heterogeneity and the retrieval path difference bringing great inconvenience to readers has greatly reduced the effective utilization of the library data.

Strategies and Recommendations for the Construction of Library Information Resources

A. The Clear Orientation of University Library and the Formulation of Scientific Development Planning

The goal of colleges and universities is to cultivate high-skilled talents for the frontline of production, management and service. In addition to the common characteristics of ordinary higher education, the talents must have some characteristics related to career, skills, application, locality, industry and flexibility. The orientation of higher education determines the orientation of university library. Based on the need of some development planning, teaching, program setting and scientific research, the university library has developed some scientific collection development plan. The plan requires all-round highlight of library data technical characteristics, specifies the information resource collection range and contents and collects all kinds of information resources by scientific methods; moreover, it shall make unified planning of the proportion of information resources of various types and carriers, so as to let the academic level of library information resources in line with the teaching research work.

B. Build Scientific Research Security System, Optimize the Allocation of Library Collection Resources

University library should firmly grasp the unique characteristics of education to transform from the single printing type to the multi-carrier direction. To establish the electronic mirror collection, it has to keep on improving through various channels and carriers, focus on the collection of network resources collection, accurately and flexibly collect and reflect the literature information with the latest academic results and academic trend to enable the electronic literature occupy an important position in library collection.

C. Develop and Organize Network Resources, Improve Information Resources Navigation

The university library should be based on the university's program setting and discipline construction, strengthen the development and utilization of network information resources according to the nature, function and collection of the library. Furthermore, it shall also make comprehensive collection of the literature information of specific discipline, areas, topics to make targeted screening and links of online resources, turn the network academic resources from decentralized into concentrated status. Also, a complete information resource navigation system shall be built to provide readers with multi-channel information retrieval and build a network information resources platform with multi-dimensional mesh structure.

D. Build an Interactive Interview Platform to Survey and Analyze Readers' Needs

The collection, processing, storage and utilization of all the literature information in the university library should aim to facilitate teaching, teachers and students. Libraries shall transform the passive literature providing type to the interactive, education and knowledge-based, pay attention to information interview and feedback, make communication with readers in various forms on regular basis (symposium, questionnaire, visit, etc) to extensively collect readers' opinions and suggestions.

Introduce a New Type of Information Service Model to Strengthen the Construction of Special Collections

Optimize the allocation of resources and achieve digitalization through the construction of Internet of things, cloud computing center; make promotion by relying on WeChat library and allocate urban infrastructure services of different fields by intelligent information network distribution to achieve interconnection and interactive mining; achieve a more thorough perception, more

extensive and convenient interoperability and more in-depth intelligent performance. At the same time, library shall carry out information fusion to further strengthen the cooperation between the service operation system based on information fusion thus achieve efficient services and management. The ultimate goal is to achieve people-oriented services and public cultural services with equal opportunities.

Introduce "Internet +" thinking and establish "cloud reading" system, build a library with profound historical atmosphere and fresh experience of electronic reading. The "user center", "resource center", "new media center", "big data analysis center" will establish the interoperability and sharing service system between the internet and virtual library.

In the university library management, the main purpose of the strengthening and optimizing network information resource management is to enhance the service efficiency and quality and improve the school's scientific study activities and improvement of teaching quality. In the developed network environment, the university library information management must abandon the traditional management passive service into active service, use the new service ideas and methods to provide services to various types of information involved in the library information management. For example, provide readers with language transmission and information push, data resource recommendation and navigation services by e-mail, information push and other technologies and virtual reference lamp. In addition, it is necessary to strengthen the construction of characteristic collection, actively deal with the relationship between access and ownership, and define that the main service objects of university library information are students and faculty.

Conclusion

The university library bears the mission of meeting students' learning needs, teacher's teaching and research demand. It is responsible for mining a lot of information data from the massive information resources and how to reflect the application value of library information resources. To avoid being eliminated in the future social development and change, the university library must follow up social development to guide the library information resource construction and service, which is the trend of times and also the inevitable path of the library. Therefore, the application and practice of big data in library and information work has yet to be further studied. We should actively update the management concept and mode of library information resource management, promote the improvement of library information management to ensure the fully realization of its service functions and improve the school's teaching quality. Big data also has great significance in the research and study of library information.

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