

Research on Information

Construction of College

Library in the Background of Big Data



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Qiaolian Li^{1,*}, Shihua Xie¹

¹Fuzhou University Zhicheng College, China

Abstract: Today's society is an era of rapid development of information technology, and technological technologies such as big data, cloud computing and artificial intelligence are blossoming in various fields. University library construction also introduces these technologies and uses big data information to create intelligent libraries. This not only helps students maximize the value of their learning and living space but also is a reflection of educational reform and innovation. However, at present, due to various factors, the library informatization construction of universities is relatively backward, therefore, it is necessary to improve the library construction mode and improve the functionalities of the university library management department in order to promote the development of library informatization construction. This paper briefly analyzes the informatization library construction of our university and proposes corresponding measures.

Keywords: university library; informatization construction; big data; strategy

The university library is the storage place of literature and other resources in the university, and it serves the task of storing, and transmitting teaching and research resources in the university, which is significant for the good construction of the university library. Libraries play two functions in colleges universities-education and information service and are the main position for students' extracurricular knowledge expansion. The advantages and disadvantages of library construction directly affect the development of campus culture and the mainstream culture of society. The new education reform puts forward clear requirements for the construction of university libraries: to improve the information service system of university library literature resources. In order to ensure the source of literature information for universities in carrying out teaching and research activities and subject education, and provide guarantee for teachers and students to obtain information materials.

Corresponding Author: Qiaolian Li
Fuzhou University Zhicheng College, China.
Email: 02112197@fdzcxu.edu.cn

1. Problems existing in the construction of the information library at present

1.1 Resources are not reasonably allocated

With the shift of educational innovation to the strategic goals of universities, the construction of informalized university libraries is also on the agenda. Universities have started to increase the purchase cost of literature and strengthen the literature and data resources of our university. There are many kinds of these documentary resources, such as paper books, which contain newspapers, magazines, journals, specialized books, etc. Because of the wide application of electronic information technology in daily life, many academic papers, scientific and technological achievements, etc. are now available in the form of electronic books with professional databases established on the Internet. The users of university libraries are generally younger and more accustomed to electronic reading than traditional paper-based literature (Li, 2021). However, the majority of university libraries still have a large proportion of literature in the form of paper books. This is incompatible with the personalized and diversified

reading experience required by modern young people and seriously affects the maximization of students' learning and living space. Therefore, in the process of information construction, university libraries should reasonably arrange the allocation of resources according to the audience of the university, and appropriately increase the number of electronic information resources to meet the users' needs.

1.2 Resources are not effectively shared

The construction of the informatization library cannot be completed by one department, it needs the cooperation of many departments in the university to realize the effectiveness of the informatization library construction. At present, the biggest problem of the university library is that each department is independent and poorly coordinated, resulting in the duplication of many resources and increasing waste, while the information allocation is also disproportionate, leaving the data and information in an isolated and scattered state. Moreover, many resource data are limited to the university, and the accuracy is greatly reduced (Zeng & Yang, 2021). Therefore, it is very important to share the Internet between universities regarding library resources. With the promotion of library construction, university libraries also Foxen the Internet sharing links, but in practice, the sharing of resources is relatively single, and many areas are not thoroughly shared, which cannot meet the personalized needs of users and high precision standard needs.

2. Measures for constructing informatization university libraries

2.1 Change the concept of university construction library

At present, most college library construction still adheres to the traditional model - management-oriented, which is not in line with the current concept of big data and informatization library construction, resulting in the development of library construction without due effectiveness. Therefore, the internal system of university libraries should change the construction concept from the traditional management mode to the service mode. Since those responsible for the construction of the internal library information management system are the relevant educational departments, the form of information management in the overall construction process is based on

departmental management, and the development of the form of services is decentralized (Jun, 2020). It is necessary to change the concept of construction, to replace the original unified management with a service focus, the central object of the service is the student, the internal construction system is based on the campus, and the overall construction model is innovated in order to effectively implement the library informatization construction. In order to achieve the optimization of the internal system construction of the library, it is necessary to establish a unified user interface on the application platform, guarantee the integration of the service model, build a service standard that satisfies the students, achieve the user use requirements, and realize the goal of big data informatization library construction.

2.2 Strengthen the management of informatization library construction

As there are certain differences between the running strength of each university, the proportion of capital investment in the construction of an informatization library is also very different, which leads to the different degrees of the richness of library resources. The construction of an Internet resource-sharing relationship between colleges and universities can effectively solve the problem of insufficient information resources on campus. However, for good resource sharing, there must be scientific and reasonable management schemes to provide a strong guarantee for the sharing of Internet resources in colleges and universities. The traditional management concept should be more out of date and not conducive to the implementation of information library establishment, so universities should innovate the management concept and establish an effective sharing and cooperation mechanism among each other to promote common progress and coordinated development among institutions. In the past, each university had its own independent management system, but now, although under the influence of the general environment, there is full cooperation for building an informalized library and realizing the sharing of resources, a unified management mechanism has not been built in a short time, and the effect of resource sharing is greatly reduced (Lin, 2021). Therefore, good interaction should be established among university libraries to promote the sharing of benefits among them and realize the

effectiveness of sharing.

2.3 Improve the construction of informatization infrastructure equipment and build a scientific service platform

In the construction of a modern informatization library, the configuration of basic equipment is one of the main contents of construction. In the process of improving and updating our library, universities should have a long-term vision, make integrated planning and intelligent layout, and prepare for the future renewal of library construction (Yao, 2020). For example, the layout of network lines, the addition of intelligent devices, and the organic combination of management systems. The reasonable configuration of these information devices can effectively promote the library network construction and provide strong scientific and technological support for the informatization construction. Information library construction is built on big data and the Internet, and it provides intelligent services for users. Therefore, libraries should effectively integrate information equipment, big data, paper and electronic books, and management personnel information into the network system, establish integrated Internet interactive elements, promote the expansion of network information platform data, and realize the establishment of big data informatization libraries (Li & Guo, 2020). In addition, the informational library data service platform is a trading platform for storing, acquiring, analyzing, integrating, and collaborating on knowledge data, which can provide users with one-step knowledge acquisition services. In the overall network knowledge platform, a large amount of semi-structured or unstructured knowledge data is stored, and the platform can use digital analysis and processing functions to deeply mine and integrate this knowledge, and provide users with convenient knowledge reading services (Ni, 2018). The knowledge sources of the Internet large database are complex and diversified, so the intelligent terminal technology can be used in data collection to carry out effective data analysis and integration based on the characteristics of data resources, establish a scientific data system, promote the construction of an informative data knowledge platform, and promote the construction of efficient library informatization.

2.4 Enhance collaborative services of shared information among universities

The role of contemporary informalized university libraries is to provide users with literature consultation and reference services through electronic information platforms, and the power of one library is limited and cannot reach to meet the needs of all users (Zhou, 2020). The establishment of an Internet big data platform among schools optimizes the narrow service model of traditional libraries, builds an electronic interconnected knowledge platform across space and time, effectively breaks the original resource barriers, creates a holographic information sharing database, allows people to exchange and acquire information on a barrier-free network platform, and brings the library's function of spreading human knowledge in civilization into full play (Ye, 2016). In the era of big data, the maximum sharing of information resources reflects the value of knowledge dissemination and highlights the significance of library construction. Strengthening the connection between university libraries and each other improves the chances of sharing knowledge resources and promotes the good dissemination of knowledge and civilization. It also provides users with a novel reading experience and increases people's reading volume, which in turn promotes the improvement of people's overall cultural literacy.

2.5 Construction of our library APP application system

With the development of science and technology and the Internet, intelligent terminals gradually enter the public eye and play a great role in life. In the past, people could only use paper books to read and find information, but now cell phones and PDAs gradually replace paper books as the media for the public to obtain information resources (Huang, 2022). It is mainly because the network access to information is not limited by time and space, and it is easy to carry, so you can check information anytime and anywhere. Network mobile libraries will become the mainstream of service to the public, and it is a must for university libraries to establish their own mobile library network APP for better service to users. Therefore, most university libraries now create independent intelligent APP service systems and open their own mobile library service to provide multi-functional, all-round and wide-field information resource service for the majority of users.

3. Conclusion

To sum up, in order to realize the effectiveness of university information library construction, it is necessary to carry out orderly strategic development, improve the original concept of running libraries, implement reforms to the management system of libraries on campus, strengthen the collaboration between various departments, and optimize the configuration of library knowledge resources and equipment. By improving the management mechanism of resource sharing in colleges and universities, strengthening the sharing cooperation among college libraries and sharing across time and space, the sharing of big data of knowledge and information can be realized in the real sense. The construction of informalized books is not a one-step process, and universities should set aside the space for infrastructure renewal when carrying out library construction from long-term development to promote the sustainable development of efficient informalized libraries.

Conflict of Interest

The authors declare that they have no conflicts of interest to this work.

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