Research on Modern University Libraries to Serve the Development of Higher Education

Hongyu Zhou

Chongqing College of International Business and Economics, Chongqing, China
420341229@qq.com

Abstract: *With the fast expansion of higher education in China, the construction and development of university libraries cannot obviously follow behind the pace of higher education. It has to face increasing problems arising from many factors relevant. It also raise the question how to deal with the present problem and seek for further develop. In order to answer the question, this paper focuses on three aspects such as space layout, collection quality, and personnel training, aiming to explore the construction of modern university library to serve the development of higher education in China.*

Keywords: *Modern University Library; Construction; Higher Education*

1. Introduction

1.1 The Important Role of University Libraries

The university library is an important component of higher education and scientific research, an important guarantee of knowledge resources, providing teachers and students with information retrieval, learning, reading, research and other services, and is also one of the core components of school education resource construction.

1.2 The Current Situation and Problems Faced by the Construction of University Libraries in China

At present, the construction of university libraries in China has basically established a modern system corresponding to the development of higher education, but from a practical point of view, there are still some problems with Chinese university libraries "Firstly, there is overcapacity. Many university libraries have too many collections but low quality, and some books have not been borrowed for a long time (Zheng, 2009). Secondly, the functions are single. Many university libraries do well in providing information consultation and literature services, but still lack the ability in developing and utilizing digital literature resources and reading experience. Thirdly, the quality of the collections is not high. Due to inaccurate positioning of book purchases by many university libraries, the quality of purchased books is not high. Fourthly, the reading environment is poor. The reading room environment of many university libraries is old-fashioned and uncomfortable, which affects readers' learning and reading experience. With the continuous development of information technology, changes in people's reading habits and the increasing demands of the public for reading environment, these problems need to be solved urgently. Therefore, building a more modern, efficient, convenient and green university library system is an urgent task[1].

1.3 Research Significance and Purpose

Building a modern university library has significant and important implications for serving the development and research of higher education. Specifically, it includes the following aspects:
Firstly, providing more modern and efficient knowledge services. In the digital and information age, university libraries must be able to adapt to changes in the times, establish and improve digital literature resources, provide comprehensive information services and support, and help students and teachers obtain knowledge more quickly.

Secondly, optimizing the layout of library space. Building a more modern library can design space according to students' needs, provide students with a quieter and more comfortable learning and research environment, create a good cultural atmosphere, and promote readers' learning and

communication.

Thirdly, improving the quality and quantity of collections. Constructing a more refined and professional information management system, focusing on collection positioning and book purchasing strategies, focusing on expanding and building collections with targeted approaches in frontiers of disciplines and student growth to meet the needs of school development and student knowledge needs.

Fourthly, strengthening personnel training. Building a modern university library also requires recruiting relevant professional talents, continuously improving library management and service levels, adapting to the knowledge and technology requirements of the modern information age, while focusing on students as the center to strengthen the cultivation of students' scientific literacy.

In summary, building a modern university library is not only an important part of serving higher education but also provides strong support for the academic reputation and competitiveness of schools.

This article aims to elaborate on how to build a modern university library from three aspects: space layout, collection quality, and personnel training, and explore its importance in serving the development of higher education.

2. Optimizing Space Layout and Creating a Comfortable Learning Environment

2.1 Determining the Scale and Structure of Library Construction

Determining the scale and structure of library construction according to different requirements of university education scale and number of teachers and students is also the first step to build a modern university library. Therefore, the construction scale and structure of the library need to be considered comprehensively taking into account a series of factors. Here are some key factors.

Firstly, according to the scale of the university and the number of disciplines, determine the construction scale of the library. Knowing the number of students and teachers, the distribution of disciplines, etc., formulate plans for the number of collections, building scale, and collection scale of the library to ensure that the learning, research and cultural needs of teachers and students are met.

Secondly, taking into account the trend of population and cultural development. Statistics of population growth and cultural needs growth rate, predicting the demand scale of future library collections, and determining the building scale on this basis[2].

Third, considering the development of technology. In the era of digitization and informatization, libraries need to continuously adapt to the development of new technologies, provide electronic resources and digital services, meet demand while also controlling economic costs. All of these need to be considered during the planning and design phase.

Fourth, considering the utilization of space and the requirements for reading environment. Convenient transportation, wide field of vision, located in a safe, beautiful, spacious and comfortable place, as well as providing flexible and diverse learning and research space and environment are all crucial for supporting academic research and a good reading experience. Therefore, when determining the building structure and space usage plan of the library, spatial needs should be comprehensively considered to create a spacious, bright, comfortable and pleasant reading environment.

Finally, friendly environmental protection and green building concepts should also be considered. Attention should be paid to the ecological environment of the building, energy conservation, water conservation as well as sustainable management while achieving library utility to protect the ecological environment.

2.2 Reasonable Layout of Reading Room, Bookshelf, Service Desk and Other Spaces

After determining the construction scale and structure, it is necessary to reasonably layout the reading room, bookshelf, service desk and other spaces according to functional requirements. At the same time, sustainable development and environmental protection should also be considered, and green and intelligent environmental protection technologies should be applied to the air conditioning, lighting and other systems of university libraries. Therefore, reasonable layout is one of the important design elements of modern university libraries. It can provide a comfortable learning environment and enable readers to make full use of various resources in the library. Here are some design principles for reasonable layout of reading room, bookshelf, service desk and other spaces.

1) Reading room: The reading room should be located in the central area of the building so that readers can find the required books more quickly. In order to improve the reading comfort of readers, the reading room should be well-lit, well-ventilated, quiet and comfortable, and equipped with comfortable chairs and tables for readers to study and research.

2) Bookshelf: The bookshelf is the main storage space of the library and an important interactive medium between readers and library books. Therefore, the layout of the bookshelf is very important. Books are classified by category, retrieved by practical mechanisms, and set to facilitate readers to quickly find the required information. At the same time, basic safety measures such as moisture-proofing, mildew-proofing and fire prevention should be taken into account.

3) Service desk: The service desk should be located at the entrance of the library for readers to consult, borrow and return books. The service desk should be equipped with sufficient staff to provide high-quality services.

4) Computer area: The computer area is one of the main spaces for providing digital services, and its importance is self-evident environments. The computer area should be equipped with sufficient computers and printers, and professional software and applications should be installed to meet readers' needs for digital resources.

5) Various functional rooms: Modern university libraries should also be equipped with various functional rooms, such as multimedia reading rooms, lecture halls, group discussion rooms, online classrooms, etc., which play an important role in meeting the reading, research and communication needs of different readers.

In short, the layout of library space needs to achieve a good balance between reading comfort, collection storage and resource utilization efficiency, and ensure readers' comfort under reasonable space utilization efficiency. In addition, libraries should continue to improve their existing layouts to meet the increasing demands and requirements of reading

2.3 Introducing Modern Lighting and Environmentally Friendly Air Conditioning Systems

The lighting and air conditioning systems of university libraries play an important role in ensuring reading, learning and rest. How to introduce modern and environmentally friendly lighting and air conditioning systems is of great significance for improving the comfort and environmental health of university libraries.

2.4 Providing Rich Learning Facilities Such as Sockets, WIFI, and Others

Meeting the needs of readers to use digital learning tools, such as providing sufficient sockets, high-speed WIFI, etc., is one of the necessary conditions for modern university libraries[3].

3. Improving Collection Quality and Building a Literature Resource System

3.1 Deepening Literature Procurement and Management and Enriching Collection Structure

The rich collection structure of university libraries depends on the continuous deepening of literature procurement and management (Jiang, 2012). The following are some common methods for deepening literature procurement and management and enriching collection structure in university libraries:

1) Developing a procurement plan: When developing a book procurement plan, university libraries should communicate with teachers and students to understand their academic needs and provide support for school education and research. The procurement plan should also consider factors such as the collection and update cycle of the collection, the publisher's catalog and popular books, and the school's teaching and research directions.

2) Targeted literature procurement: University libraries should also purchase books targeted according to the school's professional fields and academic needs. Factors such as the language of literature, place of publication, publication time, concentration or dispersion, publication type, etc. need to be considered.

3) Reasonably allocating book purchase funds: When purchasing books, university libraries need to

allocate funds reasonably to avoid over-concentration or insufficient phenomena. For example, book purchase funds can be allocated according to disciplinary fields to ensure the idealization and practicality of collection structure.

4) Paying attention to the organization and management of collection resources: Enriching and deepening literature procurement not only requires the purchase of new books and materials but also requires the organization and management of collection resources. Adopting classification cataloging, indexing, digital management, etc., can better utilize collections to meet readers' learning and research needs while also ensuring the uniqueness and long-term preservation of collections.

5) Strengthening cooperation and expand resource intelligence channels: University libraries should strengthen cooperation with local libraries, domestic and foreign professional libraries, borrow collections from each other, enjoy online literature databases and digital resources, etc. This can greatly increase the quantity and quality of literature procurement and collection, as well as help optimize and supplement internal resources.

In summary, literature procurement and collection management in university libraries is a process of continuous deepening. Libraries need unremitting efforts and practice to better meet teaching research needs of readers while maintaining and improving the quality and practicality of library collections.

3.2 Developing Digital Resources and Building a Digital Platform for the Library

Digitization is an important development direction of modern university libraries. Digital resources can better meet the learning needs of readers, improve reading and borrowing efficiency, and save time and energy. Therefore, it is necessary to develop digital resources, build a digital platform for libraries, and provide richer knowledge services. Modern university libraries have gradually implemented digital transformation and development. Developing digital resources and building digital platforms have become important means of library digital transformation. Here are some key steps for university libraries to develop digital resources and build digital platforms:

1) Developing a digital strategy: Developing a digital strategy can help university libraries establish long-term planning in digital construction. The digital strategy should include the goals and plans for developing digital resources, the development and maintenance of digital platforms, etc. It should also consider how to publicize digital resources to meet the learning and research needs of readers.

2) Developing digital resources: Specific development of digital resources needs to be planned according to the digital strategy, such as cultivating the naming and classification of digital resources. The development content of digital resources should reflect the collection characteristics of the library, covering cultural relics, academic resources and cultural heritage, etc.

3) Building a digital platform: Building a digital platform is an effective means to achieve digital management. In the construction of a digital platform, practicality, openness, stability and scalability should be considered. Meanwhile, the management and maintenance of digital platforms should have a certain degree of security and reliability.

4) Promoting digital resources: Promoting digital resources is an indispensable part of digital construction. Its purpose is to let more readers understand and use digital resources. Digital resources can be promoted through academic journals, academic reports, etc. At the same time, the access to digital resources can be expanded on the basis of building digital platforms, such as providing APIs or using open-source digital platforms to meet readers' diversified needs.

In short, digital transformation has become an inevitable trend in the development of university libraries. By planning digital strategies, developing digital resources, building digital platforms and promoting digital resources, libraries can fully utilize the advantages of digitization and bring long-term positive effects and practical benefits to the construction of library literature resources[4].

3.3 Providing Literature Delivery and Sharing Services and Building Resource Alliances

Another important task of building a modern university library is to provide academic sharing services and achieve literature delivery and sharing through resource alliances and cooperation. Establishing resource alliances, expanding the quality of collections, optimizing delivery methods, and continuously improving resource utilization are important for improving the competitiveness and reputation of university libraries (Yao &Chen, 2018).

University libraries are an important part of the intellectual resources of universities. The literature delivery and sharing services they provide and the integration and management of library resources are equally important.

The specific measures are as follows:

1) Providing literature delivery based on alliance cooperation: University libraries share their resources with other libraries by joining library alliances, increasing the types and quantities of books.

On this basis, online retrieval and download services are provided through digitization to facilitate users' access to online library literature.

In addition, some effective ways are provided by trade scanning and OCR technology to convert traditional paper documents into electronic books.

2) Implementing literature sharing: In order to facilitate users' access to library resources, university libraries can join literature sharing projects to carry out literature sharing and interlibrary loan services. By establishing long-term friendly exchanges with other groups or organizations to achieve the purpose of resource sharing. At the same time, in order to share literature data online, standard digital library protocols are used to digitize resources. Actively promote the sharing of domestic literature resources and promote the sharing of advanced literature in cutting-edge fields around the world, promote the establishment of a digital literature mutual online retrieval request system, and realize the sharing and dissemination of electronic literature.

3) Providing literature purchase and delivery services: University libraries can purchase books and provide delivery services through the Internet to facilitate users' access to new popular foreign publications. Especially in academic fields with strong academic content, rich in research or constantly improving, this will help libraries respond to students' reading and research update requirements with the shortest logistics and operating costs.

4) Participating in the construction of academic Internet: As a role of academic resource center, university libraries can also cooperate with academia to participate in the construction of academic Internet and establish an academic exchange and cooperation platform. Through the promotion of network technology, an academic literature resource platform with functions such as online reading, downloading, sharing, communication, and cooperation can be established to provide more convenient services for teachers and students.

To achieve literature delivery and sharing, university libraries not only need to actively participate in literature sharing activities and solve technical problems but also need to establish cooperative relationships with other groups and organizations to achieve resource sharing. Establishing resource alliances is not only beneficial for the integration and management of library resources but also a necessary way and means to provide literature delivery and sharing services.

4. Strengthening Personnel Training and Improve Service Quality

4.1 Paying Attention to the Professional Skills Training of Librarians and Service Staff

The development of university libraries cannot be separated from the professional skills training of librarians and service staff. The following are the methods that university libraries use to attach importance to the professional skills training of librarians and service staff:

1) Providing professional training: University libraries should provide librarians and service staff with professional training opportunities, such as participating in library subject courses and various academic conferences. Through these trainings, librarians and service staff can imp rove their knowledge and skills in a favorable environment.

2) Implementing new employee training plans: In order to improve the quality of book management and services, university libraries should formulate comprehensive training plans for new employees to help them become familiar with various skills related to library management and services. At the same time, training or a small amount of internship experience can also improve employees' professional quality while honing their work experience and ability to work.

3) Establishing a Sound Assessment System: University libraries need to establish a sound assessment system to evaluate the work performance and quality of librarians and service staff, and timely correct and improve their work ability. For each librarian and service staff member, their work

quality and efficiency should be evaluated regularly, and feedback and guidance should be given on their work performance to promote continuous improvement in their work performance.

In summary, university libraries need to attach importance to the professional skills training of librarians and service staff, continuously optimize service processes and quality, improve literature provision and service quality, so as to better meet the needs of readers. In addition, a reasonable incentive mechanism should be established to stimulate employees' enthusiasm and work enthusiasm, improve overall work efficiency and service quality.

4.2 Improving Work Efficiency and Service Quality

The efficiency and service quality of university libraries directly affect the effectiveness and results of teachers' and students' learning and work. Therefore, it is necessary to strengthen management and optimize service processes to improve work efficiency and service quality. To improve the work efficiency and service quality of university libraries, efforts can be made from the following aspects:

1) Promoting digitization: Through digital construction and information technology innovation, university libraries can digitize library resources and build databases. Research and implement various digital services and technologies, such as online retrieval, digital collection, literature sharing, etc., in order to better provide library resource replication and communication services.

2) Providing high-quality services: University libraries can improve user experience by increasing staff, improving service quality and efficiency. Providing readers with more comfortable reading environment, faster literature delivery service and higher quality reference consultation service to meet readers' needs.

3) Strengthening personnel training: Strengthen professional skills training for librarians and service staff to improve their quality and ability. Regularly evaluating work efficiency and service quality is essential.

4) Strengthening management and coordination: Strengthen the management and coordination ability of university libraries themselves. Internal processes and standard specifications of the library have to be established and facilitated to improve the level of process and performance management.

In summary, to improve the work efficiency and service quality of university libraries, it is necessary to realize the digitization processing and management of library resources through various channels, as well as to improve the operation efficiency and service quality of the library through rigorous management and meticulous service to meet the academic information needs of teachers and students in universities, and achieve the goal of modernizing university library construction.

4.3 Focus on reader needs and carrying out personalized services

Reader needs are one of the important cornerstones of modern university libraries. To focus on reader needs, university libraries can carry out personalized services in the following areas:

1) Providing personalized reference consultation services: University libraries can provide one-on-one reference consultation services for readers with different needs to help them solve specific problems. When providing consultation services, university libraries should pay attention to answering readers' questions and recommending relevant information resources to help readers understand academic information resources more quickly.

2) Providing personalized reading consultation services: University libraries can provide personalized reading consultation services through reading recommendations and recommended reading lists, etc., to understand readers' reading habits and requirements, provide professional reading guidance and recommendations for readers, and save readers time searching for suitable books.

3) Providing customized literature delivery and service services: University libraries can provide customized literature delivery and service services according to readers' needs. For example, providing literature customization, copying and delivery services, booking or updating required bookstores or databases for library readers, etc.

4) Carrying out personalized training and education: University libraries can provide personalized training and education services for readers, such as seminars, academic writing guidance, the use of various literature retrieval tools, etc. These activities can be tailored to readers' different academic needs and knowledge depth to help readers make better use of library resources.

5) Establishing feedback mechanism: University libraries can establish feedback mechanisms to understand readers' satisfaction and opinions on library resources and services so as to adjust and improve services at any time. For example, reader surveys can be conducted to collect user feedback and suggestions.

In summary, university libraries need to focus on reader needs and carry out personalized services. In order to better meet reader needs, university libraries need to continuously improve their service system and quality, provide convenient, efficient and practical services for readers, so as to better strengthen their connection with university teachers and students.

5. Conclusion

The university library is an important part of higher education, and building a modern university library is an inevitable choice for serving the development of higher education. A modern university library not only optimizes space layout, improves collection quality, and strengthens personnel training but also provides readers with a comfortable learning environment and rich literature resources to improve the level and quality of higher education and scientific research. According to the "Compass Report on Modernization of University Libraries," modernization of university libraries is an important proposition in the strategic situation of China's great national rejuvenation and the world's unprecedented great changes. It will further construct and optimize a new development pattern through connotative development, overall development, high-quality development, scientific development, and sustainable development to realize the unique value of university libraries in the new era.

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