

# Research on Function Expansion and Realization Path of University Library in Big Data Era

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**Abstract.** The basic function of university libraries is to serve teaching and scientific research. They need to complete the basic functions of administration, teaching tasks, information consultation, academic exchanges and social services. In addition to fulfilling the basic functions, university libraries should give full play to the resource advantages of University libraries, develop potential functions and expand functional paths so as to provide socialized services for readers and enterprises and institutions in need of society. This paper analyses the thought of function expansion of University library, and it is necessary for university library to carry out function expansion to meet the needs of social development and its own development.

## 1. Introduction

University libraries are professional institutions providing services for teaching and scientific research, as well as the literature and information center of the university. They have rich collection of documents, massive electronic resources, advanced equipment and facilities, elegant and quiet atmosphere, and other resources and environmental advantages. They provide space for teachers and students to learn and relax. The university library is the supplement of teaching outside the classroom. As the "second classroom" of students and the "reference study" of teachers, it is an important part of the higher education system.

The fundamental purpose of university libraries is to serve and educate people, that is, to adjust the content and mode of service according to the readers' reading needs and reading rules, and to provide all-round service for readers' satisfaction. The level of a school library directly reflects the overall level of the school. With the increase of investment in higher education, the expansion of the scale of running a school and the improvement of the level of running a school, the functional status of the library has played an increasingly important role in the process of building and running a university.

## 2. Basic functions of university library

Collection, collation and preservation of human cultural wealth and cultural classics are the oldest and most basic functions of libraries. The social functions of modern libraries have expanded to preserve human cultural heritage, transmit scientific information, provide cultural education, develop intellectual resources, integrate large-scale digital resources and carry out social education. College libraries are teaching and research assistant institutions. In addition to performing administrative functions, the basic functions of university libraries include collecting documents, information consultation services, information literacy education and social services.

### 2.1 Collection of documents and materials

The abundant collection resources of libraries are the basic conditions for carrying out various activities, and the construction of collection is the premise and basic guarantee for carrying out teaching and scientific research activities in University libraries. Collection of books is the material basis of libraries. University libraries have been insisting on purchasing all kinds of professional

literature publications for a long time and systematically. The collection resources of university libraries have the characteristics of strong professionalism and complete variety. Only in this way can the needs of literature materials in education, teaching and scientific research activities be guaranteed.

The popularization of computer and network technology has greatly changed the way of human communication and information acquisition. Real-time and interactive information query and acquisition functions can be realized through the Internet. Therefore, the service functions of University Libraries inevitably expand with the progress of the times. In addition to completing the basic services of traditional paper documents, the importance of electronic resources construction has become increasingly prominent. At present, in order to meet the needs of teaching and scientific research, university libraries are vigorously building digital libraries, purchasing a large number of electronic resource databases at home and abroad. Information query, document retrieval and scientific and technological query have become important new service functions of libraries.

However, even in the era of network, the construction of books collection is still the most important basic task of libraries. Libraries must pay attention to the quality of books purchasing and strictly control the principles of professionalism, ideological, authoritative, characteristic, applicability, continuity and economy of books purchased. Combine and complement the collection resources and electronic resources, give full play to their respective advantages and functions, and serve the teaching and research needs of teachers and students.

In the Regulations for Library of General Colleges and Universities issued by the Ministry of Education in 2002, it is pointed out that "the Library of institutions of higher learning should determine the construction scheme of document information resources and form a collection system with its own characteristics in accordance with the development goal of the school, the needs of teaching and scientific research, the overall arrangement of the collection basis and the distribution of regional or systematic document resources." Therefore, university libraries should strengthen the construction of characteristic collection resources, and set up a collection system with the characteristics of the University by collecting relevant professional books and materials in accordance with the key specialties, characteristic specialties and subject development of the university.

## **2.2 Information consulting service**

On the basis of completing the function of collecting documents and materials in University libraries, as the main body of information function, university libraries also need to provide efficient and professional reference services for readers.

As the center of literature and information exchange in universities, university libraries should timely publish the latest dynamic information and technological achievements of related disciplines according to the readers' needs for literature and retrieval information. Provide frontier research trends, hot research issues, follow up the latest research trends, and actively provide specialized and personalized information consultation services and special subject services for readers in need. The latest achievements of education, teaching and scientific research can be accessed by teachers and students at any time.

Because the purchased databases are independently developed by different companies, the contents of electronic resources included in each database are different and overlapping, and the retrieval pages and methods of the databases are different. It is inconvenient for users to search. University libraries should follow the concept of "people-oriented" and user-friendly to do a good job in information consultation and navigation services, integrate different electronic resources, provide cross-database retrieval services, and facilitate users to "one-stop" retrieval of various types of information in different databases. In addition, the information consulting departments of university libraries should regularly organize training courses such as literature retrieval skills and database knowledge to publicize and promote the effective use of electronic resources.

### **2.3 Information literacy education**

One of the basic functions of university libraries is the educational function. The abundant collection resources of libraries have unique advantages in cultivating students' quality education. They provide necessary conditions for the education of students' character, ideology and morality, as well as for the promotion of students' correct outlook on life and world outlook.

With the rapid development of computer technology and network technology, the digitalization of university libraries is also improving. The service functions of libraries are expanded from the traditional paper book lending service to the functions of document information retrieval, information consultation, and database training and information literacy education of students in electronic resources database. In the era of wide application of information technology and rapid increase of information quantity, college students should have the ability of searching, screening, managing and integrating the required information. Information quality is the essential quality of College students.

### **3. Function expansion of university library**

The focus of training innovative talents must be changed from examination-oriented education to quality-oriented education. In order to meet the needs of higher education reform and the development of University Libraries themselves, university libraries must expand their functions on the basis of fulfilling their basic functions.

#### **3.1 Guiding the reading direction**

Due to the immaturity of College Students' judgment ability on the good and bad of books, university libraries can't simply provide readers with books, magazines, newspapers and all kinds of information. University libraries are obliged to guide students' reading direction and taste correctly and promote students to establish correct outlook on life, values and aesthetics. University libraries should recommend excellent books to readers through various ways of publicity, regularly publish new book information, new book exhibitions and Book reviews, and guide students to make prompt and correct use of Library resources.

#### **3.2 Promoting the Construction of Campus Culture**

In addition to subject research literature and professional books, a very important part of library collection system is aimed at the construction of campus culture. A scientific and reasonable collection system plays a vital role in the construction and development of campus culture. The library's literature and information resources affect the development degree and level of campus culture construction.

#### **3.3 Building academic salon**

University libraries should regularly invite well-known scholars both inside and outside the university to organize academic lectures and cultural forums to provide services and support for scientific research and academic activities of the university. Building Academic Salon not only establishes a communication platform for experts and scholars to publicize culture and science and technology, but also provides opportunities for teachers and students to communicate directly with outstanding professionals.

### **4. Implementing the socialized education function of university library**

#### **4.1 Changing service concept**

Local university libraries should first establish new service concepts, change the past passive service modes, and establish active service consciousness. University libraries should deepen their service levels and develop targeted and personalized services in accordance with their own actual situation, geographical characteristics and the needs of enterprises and institutions. Providing resource sharing

services to local clients in need, providing reference services on the latest developments of scientific and technological achievements, cutting-edge information in scientific and technological fields and hot research directions, etc.

## 4.2 Reader-centered

Under the network environment, the collection resources of local university libraries are no longer limited to the traditional paper literature resources, and the digital electronic resources greatly enrich the service contents and modes provided by local university libraries. Despite the rapid development of emerging electronic resources, local university libraries still need to pay attention to the traditional collection of paper publications and traditional literature services. University libraries should respect users' habits, take readers as the center, make full use of new electronic resources of databases and literature resources, and organically combine information consultation services with traditional services.

## 4.3 Cooperation with local authorities

The original facilities of local university libraries can only satisfy the basic functions. It is imperative to upgrade the hardware facilities of Libraries in order to carry out socialized services. It is certainly difficult to continue relying solely on the funds provided by schools. Therefore, it is necessary to seek the support of cooperative enterprises and local governments, and make use of their respective financial and resource advantages to achieve a win-win situation. Local university libraries make use of their own resources to communicate and cooperate with local governments in culture, science and technology and economy, which is not only conducive to promoting the development of local economy, but also to realizing the social value of local university libraries themselves.

## 5. Conclusion

The expansion of the functions of university libraries is not only the need of the development of the times, but also the need of their own sustainable development. The socialized service of university libraries not only makes up for the insufficiency of the number of public libraries, but also improves the utilization rate of library resources in University libraries. The path of expanding the functions of university libraries is not only an important direction for the library to provide innovative services, but also an inevitable trend for the development of University libraries. University librarians should change their service concept, improve their service level, actively expand the functions of University libraries, carry out innovative service projects, and strive to realize the social value of University Libraries and further improve the status and role of Libraries in universities.

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