

# Analysis on the Intelligent Service of "Internet +" University Library

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**Abstract.** In recent years, the concept of "Internet +" has been popular in the country. With the research of researchers, "Internet +" has been deeply rooted and changed people's life pattern. In the "Internet +" under the big wave, the university library is also the "Internet +" culture impact, triggering the university library information service reform. This article on the "Internet +" under the new situation of university library intelligent service to make a scientific and rational analysis.

## 1. Introduction

"Internet +" concept in the past few years quickly swept the country, with many disciplines in many industries are the perfect fusion, is the focus of the past few years of scientific research. With two years of experimentation, now "Internet +" is not a vague literal meaning, but a new type of Internet service model. "Internet +" is the Internet as a symbol of information and communication technology innovation, not only changed people's traditional way of life, but also changed the people's innovation model. "Internet +" is the core content of cross-border, change, is the seemingly unrelated different areas combined, and then use the Internet to other areas of innovation. Its implementation is based on modern information and communication technologies, including the Internet, cloud computing, large data and so on.

## 2. The "Internet +" and the Library

In 2015, the state put forward the "Internet +" macro-development strategy, involving all aspects of people's lives. This has brought great impact to the development of the library, but also gave the library a good development opportunity. The use of the concept of "Internet +" in the library can solve some of the problems in the library operation for a long time, and also promote some changes in the library. "Internet +" library is not a simple link between the Internet and the library, but an extension of the wisdom of the library, the Internet and the library in-depth combination of the Internet and the library into one, For readers to read a new reading experience. "Internet +" library running part of the processing layer, the core layer and the base layer. The role of the processing layer is to exchange large amounts of resources in the Internet. The base layer is mainly some of the library's hardware facilities. The core layer is the core content of the library, that is, books, literature, information and so on.

### The Status Quo of University Library Information Service

In recent years, China's university libraries have launched information services, with the development of network technology, university library information services have also been developed. Book information retrieval, query services and other content has been developed very perfect. The traditional information service content has the following aspects. Information push. Through the Internet platform to the library's profile, collection and other content to push; or to the reader's corresponding books recommended to guide them to read. 2. Provide digital resources. The traditional information service puts the library in the library into the web for people to download and read. 3. Conduct promotional activities. Through WeChat, microblogging and other Internet platforms, to carry out some reading activities, to promote the library books, so that students better read.

Thus, China's colleges and universities at this stage of the library information service has played a better role, but still have a large lack.

## **2.1 Content Is Single**

At present, the contents of information service of university library in our country mainly revolves around the status quo of library, collection, and promotion of online resources, which is very limited. And mainly rely on the reader to read their own, the site design is also more backward, can not meet the needs of readers.

## **2.2 The Utilization of Data Is Low**

At present, the system used in our university library is generally OPAC system, and the function of OPAC system is to record the reader's information, after collecting a lot of information, can not deal with the information, can not know the reader's personal preferences, Can not be very good to meet the needs of readers.

## **2.3 The Use of Poor Experience**

The current university library information service system, although the improvement of the search function, but the classification process is very complex, the literature is also very cumbersome to retrieve, very inconvenient to use, the reader often can not pass one or two of the search or want Of the information, the use of poor experience. In the "Internet +" under the wave, the university library should change the current mode of operation, make full use of the "Internet +" thinking, in order to provide readers with better service.

## **3. The "Internet +" Library Development Model**

### **3.1 Cloud library**

The so-called cloud library, is the use of cloud computing technology, a large number of library data classification. Cloud library has changed the traditional library process, the classification of information management, improve the utilization of data. Cloud library uses cloud computing technology, so that readers can quickly get the information they want, and can easily share with others. Staff can also quickly and easily understand the situation of the library to facilitate the management of staff. At the same time, cloud computing technology can also be based on the reader's reading history to calculate their reading habits, to their personal push, to help them choose a sense of fun books to read.

### **3.2 Move the Library**

Now, mobile phones, tablet PCs, notebooks and other facilities have been very common, mobile library, is the library for data. So that people can access their library through their mobile devices anytime, anywhere, so that people can complete all the operations through the mobile device, download the collection of resources. People do not have to personally go to the library, through the phone can be done at home to see the world.

### **3.3 New Generation of Internet Libraries**

After the rapid development of information technology, the Internet library can also be a corresponding innovation. You can use a new generation of Internet IPV6 protocol used to make the data transmission more quickly, the data storage address is greater, the process of transmitting data more secure. With the support of the new generation of Internet technology, the library can provide more IP addresses than now, increase the transmission rate, so that readers read the collection of resources when more convenient.

## **4. In the Current Situation, the University Library How to Change It?**

### **4.1 Strengthen the Information Construction.**

Strengthening the information construction is the foundation of the university library reform, but also the "Internet +" library can run the fundamental requirements. Before the construction of the information base, the library to conduct a comprehensive statistics, the collection of information classified statistics and then collected, the library staff can each college in detail the details of the statistics, the establishment of the reader's dynamic file , To keep abreast of the reader's reading habits. And then we must strengthen the discipline information construction. Library staff to the university faculty to understand and collect, record, including research direction, published papers, research

topics and other information. And then recommend to the professional graduates related books, auxiliary discipline education to help students can better study the subject of knowledge.

#### **4.2 Strengthen the Reader's File Construction.**

As mentioned above, the staff to establish a dynamic file readers. Every reader has his own reading preferences and reading habits, the library should be timely statistics of the reader's borrowing situation, which to infer the reader's reading habits, and then to each reader to provide personalized reading services. The establishment of the dynamic file of the reader is the basis of the "Internet +" library operation, the source of the analysis of the reader data, and the basis for the establishment of large data. Statistics The reader's data also helps the library to provide better service to the reader. The library is targeted at the reader, so the library wants to do everything possible to meet the different needs of each reader, the use of dynamic files to manage, you can make readers get better reading services, in line with the development needs of the library.

#### **4.3 To strengthen the application of new technologies.**

The library can also enhance the use of high-tech applications to facilitate the reader's reading. For example, in the access control, no longer need students to carry school card library card and other documents, the use of face recognition, fingerprint identification, etc., to facilitate the reader to the library to read. When borrowing books, you can use the way to scan two-dimensional code, eliminating the cumbersome borrowing process.

#### **4.4 Collaborate with MOOC and other online learning platforms.**

MOOC is a large network of online learning platform, the use of network platform to carry knowledge, so that people who want to learn at any time with networking equipment to learn. After the study, there are after-school discussion and after-school operations to help students review and consolidate and discuss. Compared with the traditional classroom teaching, MOOC learning atmosphere is very easy, but also with a number of schools to optimize their own classroom quality. The emergence of MOOC changed the form of learning, so that everyone can be personalized through the Internet to learn. Library staff can also use the MOOC platform to store the resources of the library data sharing, for students to find useful information resources.

### **5. "Internet +" Library Brought Challenges**

"Internet +" library has a lot of benefits and advantages, but it will still have some disadvantages. such as:

#### **5.1 Information Security Issues.**

"Internet +" library can not be separated from the Internet, and the information on the Internet compared with the traditional paper information, low security, if the protection is not perfect, it is vulnerable to hacker attacks, resulting in data disclosure, Affect the individual's information security. At the same time, because the reader's file construction requires the staff to collect information on the reader, so it will inevitably involve some of the privacy protection issues, but also need to solve the researchers as soon as possible.

#### **5.2 Hardware Requirements Are Higher.**

As the "Internet +" library to use some new technology, then you need to increase the investment in hardware equipment. Due to the limited annual budget of colleges and universities, and advanced hardware and equipment generally higher prices, blind procurement, then there will be a very great economic pressure. Therefore, the lack of financial support is also a major issue.

#### **5.3 The Quality of Library Staff Needs to be Improved.**

After the "Internet +" reform of the library, the working methods and working ideas of the staff will change dramatically. The work of the staff is no longer some simple mechanical work, but the work of the new information technology. Has undergone tremendous changes, involving the integration of library resources, information collection, information access, information feedback, etc., which put the staff's personal ability to work a higher demand.

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