Analysis of the Informatization Construction of Library

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Abstract: In the era of the Internet, information technology has been widely used in various fields, to a large extent, it has greatly improved the quality and efficiency of work in various fields. Similarly, it is inevitable to develop towards the direction of informatization construction in the library management. The following is an in-depth analysis of the informatization construction of library management in the Internet era, hoping to effectively improve the quality and promote the long-term development of libraries.

1. Introduction
The library is an important place to acquire knowledge and information for people. The modes of transmission, channels, and efficiency of knowledge and information have changed a lot, the demand for information and knowledge is increasing, while the previous library management cannot satisfy the need of people and the development of libraries. Therefore, the related personnel has innovated the library management philosophy and modes, and improved their own awareness of informatization construction. In addition, libraries needs to invest enough capital in the informatization construction, so as to effectively improve the information level of libraries. In addition, it also needs to create the corresponding guarantee system, improve the efficiency of the use of book resources, and then provide information and knowledge to the public with better quality.

2. The importance of library management informatization construction in the Internet era
With the rapid development of computer and network technology, people has entered the era of the Internet. In various fields, the computer and network technology has been widely used, then the amount of knowledge and information acquisition is also increasing, libraries focus on all kinds of social information resource which is the key to obtaining information and knowledge for people [1]. Moreover, how to improve the utilization efficiency of library resources in the Internet era has become a major problem that libraries need to face, which highlights the importance of library informatization construction in the Internet era. First of all, the construction of library management informatization can effectively improve the quality and timeliness of information push, making the public more satisfied with the library services. Secondly, the construction of library management informatization can effectively improve the efficiency of data resources, ensure the security of data resources, and prevent the loss and damage of important data information. Thirdly, the development of library services towards automation and the provision of more types of library information retrieval enables the public to search for the desired library information resources in a short time and promote the humanized development of library services. Finally, information communication and exchange between librarians and the public can be promoted, so that librarians can handle according to actual work requirements, provide better services to the public, and promote the utilization rate and sharing rate of literature resources.
3. The problems existing in the informatization construction of library management in the Internet era

3.1 The philosophy of information construction of library management needs to be innovated
Theory has a strong guiding role for practice, so as library management information construction, only the relevant personnel with scientific and advanced informatization construction philosophy can ensure the smooth progress of the work[^2]. However, the current library management is unsatisfactory. The reason is that the library administrators are not aware of the backwardness of their own ideas, and even some librarians feel that informatization construction is useless, and they are unwilling to explore and innovate and hold a skeptical psychology. If this kind of informatization construction philosophy cannot be innovated, it will seriously hinder the development and progress of library informatization construction.

3.2 Library management informatization construction mode needs to be innovated
In the 21st century, Internet technology has developed rapidly. To effectively improve the level and quality of library management, it is necessary to develop in the direction of informatization. However, at the present stage, in some books informatization construction work, the use of the construction mode is not perfect, lack of a strong feasibility of the implementation plan. Part of the details of the work only handled by the management of their own experience, resulting in some hidden dangers in the construction of library management informatization in the quality level. In addition, when some libraries are carrying out informatization construction of library management, mandarin focuses on building the system and resources in the library, ignoring the sharing of resources by using the network platform, which also hindering the implementation to some extent.

3.3 The professional quality of library management staff needs to be improved
In the library management work of the library, after all, informatization construction is a people-centered service work, requiring librarians have a strong level of information and ability[^3]. However, at this stage, some library librarians are still not fully aware of information technology, and they are relatively poor in theoretical knowledge and learning ability, so some problems often appear in practical work, which seriously affects the construction of library management informatization.

3.4 Informatization construction has more security risks
In the context of the information age, although the library management information can enhance the use value of book resources, it also brings security risks to library management. At present, some libraries have begun to plan the sharing of book resources, but they are not aware that resource sharing has brought security risks. In the information construction work, librarians pay too much attention to the construction of hardware and software aspects, thus ignoring the security protection, so in actual work, when the network security problem occurs, the corresponding measures are taken. Doing a good job in prevention and control in advance, which is not only unfavorable to the experience of the public, but also seriously affects the development of informatization construction of library management.

4. Construction strategies of library management informatization in the Internet era

4.1 Focusing on hardware and software investment of informatization management
Firstly, in terms of hardware, the construction of library management informatization and the support of hardware equipment are inseparable in the Internet era. Therefore, in the future development process, the library needs to pay attention to the capital investment in hardware equipment[^4]. Upgrading the existing computer hardware equipment, and creating equipment emergency repair and replacement of special funds. If the computer hardware equipment malfunctions, it will being repaired and replaced in time, thus effectively promote library informatization level to upgrade hardware devices in the library can promote the management level and efficiency, improve the management
system of stuck problem, provide the public with good reading and search experience. Under normal conditions, library management hardware should have the following equipment, as shown in table 1:

Table 1 Library management hardware configuration

| No. | Equipment name                        | Category | Quantity |
|-----|---------------------------------------|----------|----------|
| 1   | Low-level configuration PC Server      | Necessary| 2        |
| 2   | High-level configuration PC Server     | Necessary| 3        |
| 3   | SAN Disk Array System                 | Necessary| 1        |
| 4   | VPN/Firewall Equipment                | Necessary| 2        |
| 5   | Tape Library                          | Optional | 1        |
| 6   | Network Security Equipment            | Optional | 1        |
| 7   | Network Antivirus Software            | Optional | 1        |
| 8   | Core Switching Equipment              | Optional | 2        |
| 9   | Access Switching Equipment            | Optional | 8        |
| 10  | Wireless Network Equipment            | Optional | 1        |
| 11  | Digital SLR Camera                    | Optional | 1        |
| 12  | Digital Broadcast Camera              | Optional | 1        |
| 13  | MobileHDD                             | Optional | 3        |
| 14  | Desktop PC                            | Optional | 3        |
| 15  | Portable PC                           | Optional | 1        |
| 16  | -2URKIII                              | Optional | 2        |
| 17  | UPSPSE                                | Optional | 1        |

Secondly, in terms of software, the foundation of library management informatization construction is hardware facilities, and the software system is also very important. Therefore, in the construction of library management informatization, it is necessary to continuously strengthen and upgrade the functions of the software system [5]. First of all, it is necessary to improve the professional level of the information management system and promote the improvement of the matching rate between the system and the book resources. Secondly, it needs to create a library resource external login system, so that the public can self-check and read the book resources in the network platform. Finally, it demands to implement the construction goals of the external management system of the book, ensure that the books can effectively implement and supervise the planning process, and automate the lending and returning, thereby effectively reducing the pressure on the librarians and simplifying the process of mass borrowing, improving the quality and level of library management as last. For example, the library can introduce Zhuo Yi library management system, which can realize the following functions, as shown in the table below:

| Catalogue Management | Report Printing | Catalog Warehouse | Label Printing | Bar code Printing | Catalog CARDS | New Bulletins | New Registration |
|----------------------|-----------------|-------------------|----------------|-------------------|---------------|---------------|-----------------|
| Periodical Management| Periodical Registration | Record Management | Bound Periodicals | Journal of Statistics | Periodical Classification | BarCode Classification |
| Circulation Management| Borrowing and Returning Management | Borrowing in Advance Management | Overdue Management | Fine Management | Collection Management | Exception Management | Data Flow |
| Information Inquiry | Book Retrieval | Periodical Retrieval | Readers Inquiry | Borrowing Inquiry |                      |               |                 |
| Readers Management  | Application Card | Department Management | Type Management | Leaving Management |                      |               |                 |
| Statistic Analysis  | Daily Inventory  | Class Statistics  | Status Statistics | Collections Statistics | Readers Statistics | Books Statistics | Circulation Statistics |
| System parameter    | Books Category   | Press              | Collections Place | Catalog setup      | Book No         | Holiday Management |
| Web Management       | Library Introduction | Readers Navigate | Rules and Regulations | Message Management | Information Publish |                 |
4.2 Promoting the informatization construction philosophy of Librarians

In library management informatization construction process, librarians need to have the stronger information literacy, only in this way can the management work in practice to accept new ideas and patterns, make the management and means of clear and understanding, and improve library management quality and level of informatization construction \(^\text{[6]}\).

Therefore, for librarians with relatively poor working ability, libraries can organize regular training courses and re-education activities, encourage these librarians to participate in them, and deepen their awareness of informatization construction. In addition, it is necessary to strengthen the evaluation of informatization, to review the quality and ability of trained managers twice, and to effectively improve their professional theoretical knowledge and informatization ability.

4.3 Strengthening the management of library informatization construction

In the context of the new era, in order to effectively promote the construction of library informatization, relevant personnel need to establish a correct informatization management philosophy, and accurately grasp the direction of library informatization construction. The library gathers all kinds of knowledge information of the society communicates frequently with a lot of resources \(^\text{[7]}\). Therefore, the construction of library informatization is not only to simply add some information management equipment and create electronic document information, but also to use a comprehensive and informatization management mode to enhance the pertinence of knowledge information push, and thus effectively enhance the book resource utilization. First of all, librarians need to actively introduce modern management tools, push knowledge and information to the public through public platforms such as micro-blogs, Wechat, and QQ., etc. to introduce data technology, analyze the reading of the public, ensure efficient and targeted push, and then effectively enhance information clothing. The level and quality of service will promote the improvement of informatization level. Secondly, librarians need to provide guidance services to the public in accordance with the needs of digital information resources, so that the public can have a more accurate contact with information-based book resources. Finally, librarians need to do a good job in propaganda so that the public can correctly understand the information books. Moreover, it needs to make full use of information technology, adhere to the philosophy of personalized service, optimize the way of literature information retrieval, and effectively improve the level of library management informatization.

4.4 Reinforcing the construction of library management informatization security

Information library mainly realizes information exchange through data. It is necessary to terminate user data to ensure the security of library information data in the construction of information-based libraries. Therefore, librarians need to strengthen the construction of security and introduce various security technologies. First of all, do a good job of information encryption. In order to ensure the security of information in computer network system, network encryption technology can be used, such as password setting and authentication on computer, to avoid illegal access and malicious monitoring of unauthorized users, and to avoid malicious attacks by hackers. Secondly, it is necessary to strengthen the control of access to the Internet. Access control can control the user’s access to the network, and control the location and time of the user’s access to the network. Finally, it needs to strengthen the prevention and control of virus. In the Internet, there are all kinds of network viruses, and the channels of transmission are various, and the speed of transmission is faster. If computer users are infected, the whole LAN system will be paralyzed. Therefore, it is necessary to pay attention to the prevention and control of virus in LAN, to ensure the security of anti-virus software, and to regularly
clean up potential viruses and garbage files in computers. In addition, relevant personnel need to enhance their awareness of network security, do not download unknown information and mail, do not download programs from informal channels, so as to achieve active defense, and then enhance the security of network information.

5. Conclusion
In a word, it is very important to strengthen the informatization construction of library management in the Internet era. It cannot only effectively improve the level and quality of library management, but also improve the level and quality of library services. Nowadays, the social background is full of pressure and competition, the construction of library management informatization has a positive effect on the good development of society. However, the past library management mode has been unable to meet people's living needs, so libraries need to transform and innovate their own service philosophy, expand their service functions, make full use of modern advanced technology, and innovate and reform the library management information resources mode. In addition, librarians need to constantly improve their comprehensive literacy, adhere to modern service philosophy, master modern information management technology, and flexibly apply it to library management, so as to effectively improve the level of library management information and promote the good development of libraries.

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