Exploration of Library Management Innovation based on Digital Background

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Abstract: Library management is an important part of the construction and development of social spiritual civilization, which belongs to the information service system. With the development of digital information technology, the library management mode in China has been affected. Therefore, based on the digital background and the problems existing in the current library management, this paper expounds the necessity of library management innovation. And from the library management concept, library management personnel, library management mode and other aspects, the library management mode innovation based on the digital background is analyzed.

1. Introduction

As an important component of China's education system, library provides a channel for the majority of social groups to understand historical knowledge, master national policies and inquire information, as well as an adequate driving force for the construction of social spiritual civilization and the improvement of social basic quality of the masses. With the development of digital information technology, the scope of application of library digital management mode in China is expanding. Under such circumstances, how to innovate the library management mode under the digital background has become an important task for library managers.

2. Current situation and problems of library management

2.1 Lagging management philosophy

At present, most of the library management concept in our country lags behind, which is not corresponding to the social development. Moreover, most library managers fail to realize the significance of digital library management innovation, which hinders the innovative development of library management.

2.2 Low service efficiency

The library management work has the outstanding complexity, the tedious nature, it involves the library collection record, the book storage, the book information retrieval and so on many modules. At present, the internal information of library is mostly stored in paper form, so the digital management efficiency is low and the error rate is high.

2.3 Imperfect management system

Due to the imbalance of economic development in different regions of China, there are great differences among libraries in terms of management system. The information management system of libraries in some economically developed areas is perfect. However, most of the library information management system is not perfect, lack of strict and standardized library incentive system and information flow management system, which seriously affects the library digital construction.

3. Library management innovation necessity

In the era of knowledge economy, the disadvantages of traditional library management gradually become prominent. Such as loose management, system lag. Therefore, in order to meet the needs of

current users for the development of digital libraries, library managers should continue to reform and innovate. Relying on the digital environment, the digital form of the display of rich and colorful information resources, improve the quality of library management, and provide a basis for the innovative development of library management.

4. Library management innovation measures based on digital background

4.1 Renew the library management philosophy

Library management mode based on digital background includes digital library based on resources, digital library based on integration and digital library based on users. In recent years, most libraries have realized the digital library management based on resources. Therefore, in order to ensure the sTable operation of the digital library based on integration and users, library managers should take users as the focus of their own management, directly face users, and comprehensively perceive, capture, reconstruct and share the internal information of the library, so as to provide a basis for the full satisfaction of the diversified needs of library service objects. At present, the demands of library service objects are mainly digital library resources composition and utilization channels. Therefore, library managers can take maximizing the satisfaction of service objects as the goal, truly face the needs of readers, and carry out comprehensive management mode innovation. In the information service technology system environment, establish the inspiration type book service idea and the policy guiding principle. The combination of people-oriented, personalized, brand awareness and characteristic service concept and the establishment of integrated information service system can provide effective guidance for the innovation of library management mode.

4.2 Improve the efficiency of library management

Under the background of digital information development, semantic technology has become an important support for digital library service innovation. It has outstanding advantages in digital library knowledge association, visual presentation, resource description, intelligent search and so on. Therefore, in order to improve the service efficiency of digital library, library managers can combine the research experience of China's scientific and technological information research institutions in the semantic tool development module. A complete service system is constructed from the aspects of optimized resource discovery service based on semantic association, open cross-border service based on situational sensitivity, and knowledge link service provided by embedded scientific research process.

Firstly, the optimized resource discovery service based on semantic association mainly uses semantic technology to embed semantic navigation system in digital resources to improve the resource discovery efficiency of library digital service platform. The semantic navigation system based on the semantic association mainly takes the library internal literature resources or the digital collection as the entry point to absorb the semantic association information. Then, the setting of library internal resource associated subject framework shall be proceed by the subjects like: Theme, Subjects, Discipline and Thesis. Eventually, to provide the guide of library information to clients by the subject framework bolster of the internal resource of the library. The efficiency of the digital library's viewing can be increased by using the semantic guiding system. Not only it can provide the automatic matched information according to the Keywords of service targets and the classify charts, but also can reflect the match results on the semantic guiding system. Then, to process the rational regulation of search strategy combining with the requests of library clients. In order to provide clients the best book resource search service.

Moreover, the open trans-fields service based on the circumstance sensitivity is mainly the organic integration among the libraries, internet documents resource and the commercial data, which can associate the clients service requests of all library systems, and let internal information of library and the wide area information mode among the libraries to connect effectively, in order to realize the common management of tans-filed, trans-system resource. To absorb external resource into library, which not only could expand the pattern to discover the resource for the libraries, but

also can realize the effective communicate application between libraries and external resources, eventually this aim can be reached that to connect the multi- system platforms without any gaps.

During the processing of the real management of library, the open trans-fields service based on the circumstance sensitivity can choose its own pattern to Mash up automatically, to adopt the multi- dimension association to replace the Keywords search. Combing with the related analysis of library's sensitivity information module, staff can provide the correspondent service information to the service targets according to the circumstance they are in.

Finally, the embedded knowledge process provides knowledge link services mainly by using Semantic Web technology, using scientific research infrastructure, observation experiments, computational simulation, theoretical analysis, scientific data and other components, through information correlation analysis, visual extraction, sharing, etc., to build new digital The scientific research information environment promotes the organic integration of knowledge link services and library internal resources. On this basis, the library manager can further expand the internal resource service level, and integrate the research module involving data information, pilot projects, and facilities into the internal environment of the library. At the same time, using semantic technology, it explores the relationship between resources and provides information services based on knowledge effective connection for library service objects. That is to rely on the existing cloud computing technology and cloud service platform, the user is provided with an integrated knowledge link service based on the scientific research process and objectives, and effectively connects other related library resources distributed in the network. Implement knowledge cloud service products to ensure the effective provision of complex data, sequences and structural resources in the field.

4.3 To optimize the management institution of the library

Providing the best book digital information service for clients is the ultimate goal of library management innovation based on digital background. Therefore, the library administrator can follow the principle of minimum effort and comprehensively consider the factors such as the knowledge object to acquire the knowledge information, the characteristics of the service object, the choice of the service object, and the cognitive ability of the service object. Start from the institutional level and carry out innovation in the micro environment.

On the one hand, library managers can use information flow as the main basis, and with the aid of the material flow of books and literature, construct a resource guarantee system with discipline as the organizational model. That is to say, in terms of business department setting, comprehensive consideration of subject resources, specialization needs, and service object integration needs. With the external business management as the main point, the development and application of network information resources.

On the other hand, in the service team building module, the library manager can abandon the previous literature-centered departmental establishment method, focusing on the service object, based on the discipline group construction principle, along the evaluation-introduction-propagation-evaluation Process, the entire process of service management. Ensure the effective use of the library's internal resources.

In addition, in order to improve the enthusiasm of the internal staff of the library in the digital age, library managers can build a service-oriented performance evaluation and incentive mechanism. The service quality of internal staff was evaluated based on the satisfaction of service objects.

5. Conclusion

In summary, the library is the center of knowledge and information gathering. In the network age, the library can only guarantee its competitive advantage if it keeps pace with the times and constantly innovates. Therefore, library managers should recognize the advantages of digital library development, constantly update management concepts for current management issues, and use semantic association technology to create cross-border service platforms to improve management efficiency. Combined with the application of advanced science and technology for users, it can promote the innovative development of libraries in the digital environment and enhance the social

benefits of libraries.

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