



SMART LIBRARY TECHNOLOGY

Dr. Ranjana K. Jawanjal (Librarian)

Shri Dnyaneshwar M.Burungale science & arts College ,Shegaon

Abstract

The consequence of digitalization, Internet proliferation, and technology advancement, our way of teaching and learning has been changing. The role of library has to be converted into a place for discourse, peer collaboration, social learning, and exhibition concourse. Some scholars believed that the future Library is tied to the technological development of Web4.0 which is characterized by the terminology of Convergence, Remix ability, Standardization, Participation, Usability, Economy, and Design. This concept has been extended to Campus. Some universities have started to adopt the latest technology to convert their Campus and Library into Smart ones for the interests of students. The findings of this paper support that the latest development of Smart Campus and library aligns with the new trend of education system, and creates positive impact on the competitiveness of a city. The applications in Smart Camus and Library in reality are also revealed.

Keywords- Smart library , Features, Technology.

Introduction:- The library is a crucial resource for learning and education, as it provides access to a vast collection of books and information resources. However, traditional library systems often face problems such as inefficient management of book records, slow processing times, and high-power consumption. Smart library is a system which is developed to maintain research and training activity. In digital environment smart libraries is just a library resolution to innovate library and information services. A library is built with smart technology is able to be open to library users without being personnel. The technology facilitates remote control of library building, includes well furnished furniture, automatics doors, lighting, self-service kiosks and open computers to all users. Create a new advance censor and networking is in a new ways for buildings to meet the needs of their users while reducing costs and increasing efficiency.

The concept of smart library

Began in 2000s with the advancement of the computer technology and digital interactions. Smart Library is also known as digital library, virtual library and also intellectual library. The concept of smart library emerge in various perspectives such as- the word 'smart' means elegant, flexible, stylish, acknowledging. According to their inquiries and requirements, smart library is a concept of the complexion hardware and software with a wide range of opportunities for searching and providing indispensable information to effective users. Smart library is a library offers all types of services which are innovative, interactive, informative, inventive, changing and so on. The major purpose of the smart library is to convince information requests of the user, using digital technology. To study an information need of a user is possible through implements of information technology.

FEATURES OF SMART LIBRARY

Following are the features of smart libraries which are as follows:

- Smart library providing skills and resources for the library society to confidently control cyber-issues and continue to hold the positive features of online achievement.
- For all types of libraries smart library is designed to be adjustable and flexible like regional, rural, educational, community, metropolitan, remote and mobile & it also providing useful direction to libraries.
- Smart library is an expansion of a verified model for the present scenario or the current period.
- To increase knowledge and skills of the users and staff, smart technology helps to reduce the digital divide in online world.
- The most appropriate resources and realistic tools in cyber-safety are assembled in single position.

Revolutionary Changes in Library Systems

Digital information storage technology and ICT together can revolutionize the concept of library system and can transform it into digital library. The conceptual model of Centralized National SL System is

prepared and implemented. In SL, the entire library functions are automated and a central library will digitize all the information and provide such service to all public and educational & research institutional libraries in e-form. A user can get access to any information through e-books, any newspapers, magazines, e-journals and their back volumes through search facility. This new model will also removes the constraint of unequal sharing of library resources between rural and urban institutions.

Promoting Target and Personalization of The Smart library Service in The big Data Era

- **Enhance the effect of improving reading promotion service**

At present, there are many problems in the library reading promotion, especially in the aspect of sustainability and effectiveness [7,8]. The library can through extensive data analysis, such as analysis of various types of books, publishing information, social network site data, identify and understand the specific period, knowledge needs of specific groups, reading focus on positive, innovation methods of reading promotion work. That can be carried out the reading promotion not only on the surface, but also point to the point. For example, through the collection and analysis of semi-structured and non-structured data about borrowing, life experience, work for readers and so on, a comprehensive grasp of the reader's reading habits and knowledge requirements, to carry out targeted book recommendations, knowledge push work, improve the reading promotion effect.

- **Improve the efficiency of community library, mobile library and so on.**

Research shows that the important reason of the low utilization library in current is that the library is too far away from the user, when the library and the user to maintain appropriate distance, can effectively promote the use of public libraries. Community library, mobile library is the effective carrier of the library users, close to the user, is the library service "nerve endings", expand the scope of the library radiation library are not based on the needs of users, targeted for the distribution of books, not in a timely manner to update the books. Big data of the era, it is through the data analysis, to grasp the specific regional population structure, accurately grasp the service time, content, form and place, greatly improve the utilization of books, play the role of the library.

- **Create a comfortable and friendly library physical space**

The function of library as a data storage has been gradually reduced, the library has become a "relaxed and pleasant space", in addition to the completion of the main purpose of information search, you can also learn, office, conference, friends visit, experience and appreciate, even date, and rest, it will become the main object of Library development. In the era of big data, improve the rationality of library information, on the line, reading books, data association, customs and other aspects of data mining, to let the readers into the library, dig out the potential value judgment, to optimize combine the distribution of books and data display mode, in order to improve the utilization rate of materials, readers can search etc.. On the space of layout, data collection with comfort, aesthetic, light and others, combination for furniture and equipment can be extended to optimization, mobility and experience, let the reader to enjoy the experience of art information.

6. Conclusions

The smart library service is the core value and significance of the library in the era of big data, which has injected new vitality and strength into the development of the society, which is the technical progress of library service. For many years, the library service can always catch the opportunity to develop and satisfied the growing cultural needs of users. The library in the era of big data should promote the application of big data in the library in order to maintain the development of the library, and with the rational thinking to strengthen the wisdom of library construction, to meet the opportunities and challenges bring about "big data to create a new world.

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