

## INNOVATIVE TECHNOLOGY FOR LIBRARIES

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### **Abstract:-**

*The World is become very smaller place like a global village. How a day's people can easily communicate with each other and rapidly travel anywhere. Technology has give's a new way and standards of leaving, traveling, communicating and also knowledge shearing. Science and technology has made modern Society increased possible. Technological advance increased human life span and allowed a healthier life. The major information and communication technologies advanced creation transformed and developed the library and information services as faster quicker and easier. Every function of libraries are now started with automation and new mechanization.*

**Key Words-** *ICT, library services, automation, innovative services and technology.*

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### **Introduction-**

Now a days it is facts prove that information technology is good for all parts and services industries social sectors, namely health, education especially media, business and agriculture. Information communication technological advances gives long term influences on almost every aspect of human life. Science and technology play a basic part in all sectors of life. The use of information communication technology provides better and faster services to end users. The world is presently heading towards a digital scenario. Every human being in today's worlds want quick access to information at the correct moment. So it is essential to provide information for development and its use. It is also necessary to work hard to make information science and technology available in all sectors.

Libraries play an important and main role in the society and academic environment .An every person's daily dealing with information. The libraries are the repositories of knowledge and information. Every information user wants information in right time with right way, therefore library utilities be very helpful in meeting information needs of citizens. Technology give verify remarkable ability to library for giving anf providing library services to the users. In the twenty first century many libraries provide services and done functions originally by manually, but now it is converted in to computerized process due to information technology. This ICT based services and functions are very fast and easy. Information communication technology is key

factor in ensuring equal access. Digital information boosting the quality of life, therefore it is very necessary to work hard to make technology available in the libraries all departments. The use of technology based techniques is called in information communication technology. Data information is collected, stored and processed via hardware, software networks and other media. Information is collected, communicated and presented in the form of voice, text, pecture, and multimedia. Technologies modern techniques are vastly used in libraries, computer and other library related functions including acquisition storage and organizing information. Many people may now access enormous valuable material without investing a lot of time or efforts. The power of information communication technology gives a very clear way to people for the access to generate and organize the information from anywhere in the world ina short period of time. ICT is a system that collects analyse process and disseminates data.

### **Benefits Of Infromation Technolofy--**

Information technology tools provide remotely access to the users at any time. ICT based libraries various services allow and and give permitted users universal access to data from many sources. ICT based libraries services make information accessible quickly and easily . Technological tools and various services make libraries functions very simpler, quicker and more efficient. Computerization of libraries made minimize use of paper and save the paper and space..

Therefore there is no question that information technology is very useful in providing various library services. Information technology presents both new opportunities before the library as it creates new possibilities for the development of new informative product and delivery of services. Technological devices like Radio Telegram Telephone TV Fax mobile Internet e-mail satellite communication and video conferencing scanners barcodes codes are the essential parts in communication. Now a day libraries enormously increased the capabilities of library services creating various options for networking to provide access to vast storage of information. The major information and communication technologies transformed and developed the academic library and information services automated and fast and speedy useful. Academic institutions especially research institutions are making subject databases for specialization. Thus libraries offer multiple services and change their roles for the fast growing information. ICT has a great impact on the library services. Libraries are the services institutions and knowledge centers. Library is very fast growing organism. In the library the user and services and resources are very important. Attractiveness is the important part and its make library use smart way. Smart library and its smart services gathered library users.

#### **Recent Innovative Technologies Used In The Libraries—**

Digital age brought change in the style of information is stored and accessed and also in the collection and services. Many new terms are arrived in the library future like a Digital library, library without walls, virtual library automated library electronic library and all. There are many advanced technologies used by the libraries for providing better service and user satisfaction.

#### **Barcode Technology—**

Barcoding is the most important steps in library automation. The barcode technology is very useful in libraries to allow staff to handle users requests as quickly as possible. Barcode technology is mostly used technology in libraries circulation system. It is very helpful and effective because of its speed. Barcode is a code printed on a product, it is

machine readable code. Aligarh University and library science department firstly used this technology.

#### **Mobile Technology—**

The libraries in HAND are possible as a result of mobile technology. Now libraries are acquiring the majority of mobile industries technology. Libraries can better serve their daily users with the help of this technology mobile technology refers to mobility related technology. Mobile technology devices are like Laptop, computer, personal digital assistance, smartphone, cellular phone. With the mobile technology, libraries offering mobile access to various websites and public access.

**Rfid Technology---**in the libraries it is very difficult to manage such a large collection. RFID library management system is made RFID tagged books RFID reader, a computer network and software, RFID technology is a mostly used technology in educational research librg and labeling of books. This is very useful and helpful technology in libraries work.

#### **Artificial Intelligence-**

It is one the modern techniques, it goal is to create computer systems to perform all libraries tasks. Artificial intelligence has a wide range of useful in library. It is expert system based automatic indexing intelligent online sources. It is very helpful techniques in library.

#### **Internet Of Things**

Internet of things techniques is very popular. it's give access to the internet is become a need. Internet of things is techniques increase access to resources or services. Internet of things sent only data through the internet to the user.

#### **NFC TAG—**

NFC technology is a device allows users to conduct various transactions easily. Some libraries are agreed to adopt NFC technology. In the library customer may complete a variety of transaction with their cell phones equipped with NFC technology. This app is integrated with the library management software.

#### **Blockchain Technology-**

Block chain technology is databases that keep track of Digital transaction that every user on the network may see. It is an

innovative data collection and storing method. It is used to create metadata and also in maintain records. It is also used in information sharing.

#### **Big Data**

Big data technology is very useful to boost the overall library activity. Big data helps in better connections with the user and create a flexible environment in all changes. It is useful in all activities in libraries.

#### **Qr Code Technology-**

It is very useful technology in the recent years. QR code technology allows users to receive information in the form of code. QR code may scan with a mobile device. QR code technology is free, inexpensive and very simple to use. QR code is decoded by a phone camera with a QR code reader installed with a QR code reader software and the information is shown to users on screen.

Thus all new and upcoming technological inventions and their techniques provide various smart library services to users. So technology is very useful in information dissemination and sharing. Innovative technologies provided many libraries services like a Digital storytelling, open libraries, Robot's libraries cloud printings, single sign on to all resources and also Digital makers lab's with these various services library provide smart service to smart library users. Now a day libraries offer multiple services and change their traditional role in the fast growing information age. Information technology has a great impact on the library services. all libraries are going to be Digital day by day.

#### **Conclusion-**

Libraries are one of the essential institutions of all human society. The importance of libraries has been universally accepted. The advent of information communication technology has purely transformed the system structure and working style of libraries. It is very essential to adopt the knowledge of advanced trends and technologies in library services like library automation, Digitalization, Institutional Repository and Digital services, QR code, RFID open access, references management, content management, virtual services, profiling services, web2.0 and web3.0, social media, expert systems, with

these technologies libraries become up-to date and approachable for all library users.

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