INFORMATION TECHENOLOGY ACT AS A CATALYST TO PRECIPITATE A DIGITAL LIBARARY

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ABSTRACT:

In the present century the people live in a IT world. There has been a fundamental change in the process how information generated, stored, accessed and consumed. Information Communication Technologies plays lead role to transfer all this in Digital Environment. In this digital era organization spend their major part of budget on E-journals, bibliography, e- books and online services. It is imperative to have multi system approach to knowledge technology. A digital environment will have the potential to be a game changer in the current scenario of remote monitoring and *management* of complex infrastructures. These technologies helped *library* staff to *develop* new services and cope with the surge in *information* there were already concerns that digital services. This paper endeavor to calibrate the role of information technology as a smart technology to manage information and libraries. It deals with impact of web based services in smart environment

KEYWORDS:
Information Technology, e-resources, Digital Information Management, Digital Libraries, Web services.

INTRODUCTION:

Information computer technology has transmutation the universe in a digital point. Since last many years the researchers has been searching the new idea to change the whole world in a fast and efficient world. The researchers have brought a lot of success in many fields. In the series of success stories libraries field where we need still much success.In early times information and knowledge is limited to a restorer who cares the libraries as a book store but advancement in information technology brought a drastic change in information and knowledge. Today information becomes axis of digital world. Internet web 3.0 has greatly influenced the libraries and library profession. The process of generated stored access the information and knowledge has radically changed. The main game changer in smart environment is technology and development in ICT and networking. The e- publishing opened up several opportunities for users. E – Recourses predominately include E- journals, E-Books, Scholars database, E-reference with online E- libraries.
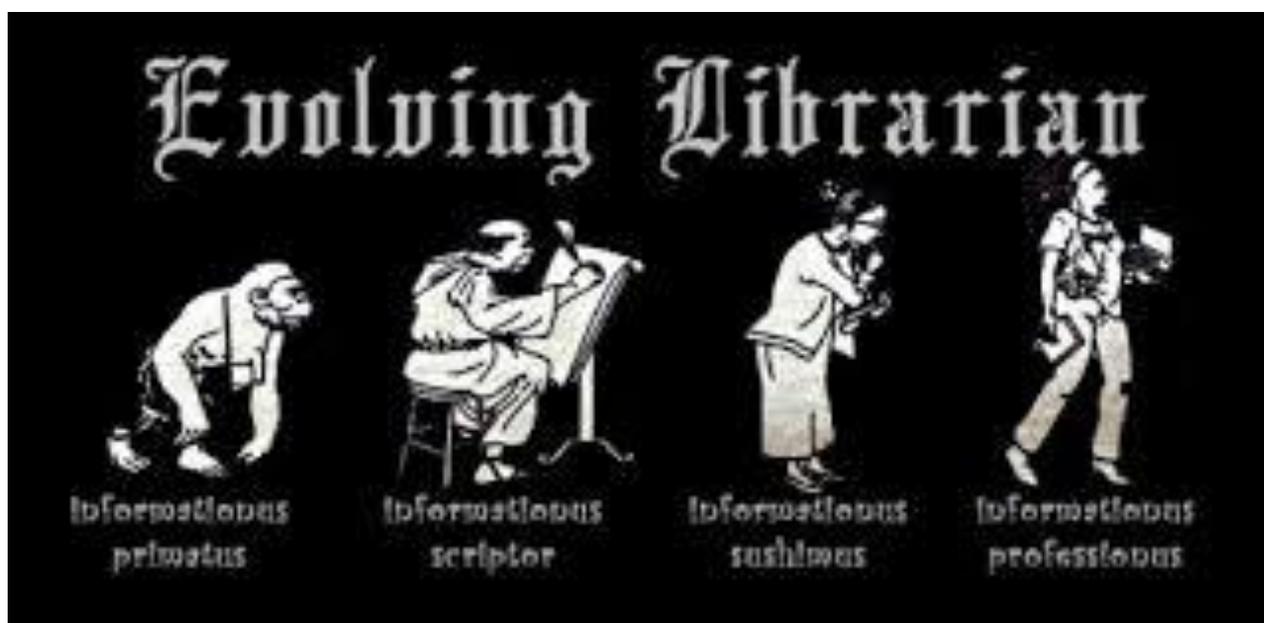
NEED FOR SMART ENVIRONMENT:

There is large number of reason to make library is a digital library in all time the libraries required more paper work, a lot of space to store the books. There are also many types of problems with libraries like fire, moisture, rats, damaged of books. There are also many types of problems with libraries like fire, moisture, rats damaged of books. But digital libraries have sort out all these problems. In present time a change already registered in most of library's collection building process. There is deep penetration of scholarly digital information through a variety of forms such as books, journals, Portals, Vortals, report, CBT's, WBT's. Today there is big used of IT at upper level. A library is an information hub which fulfills the needs of social, economical, political systems. So it must to transfer information and knowledge smart environment. The requisition of new at robust form of information recourses across a world in a big way in libraries in also the main objective of smart environment.

FUTURE LIBRARIAN:

FUTURE LIBRARIAN Though the end user used their desktop directly in electronic era without knowing the role of librarian but the great responsibility of librarian and information scientist to package and repackage the information for end user. In 21st century the role of the librarian has drastically changed. In this century the librarian works as the information brocker, change agent i.e. technology application leader and facilitator It is very difficult task for a librarian to organize it. But electronic era change and developed more skillful librarian. The librarian also enhanced his management skills for organizing, managing and disseminating e-literacy to users. The librarian satisfies all types of users specially research scholars and young generation who uses internet frequently.

TECHNIQUE TO SET UP SMART ENVIRONMENT:-

There are numerous information management techniques present in current century to set up smart environment:

1. Library automation (An atomization in library activities)
2. ORCID (Open Researcher and Contributor ID)
3. Library portal (seamless integration of the library's entire knowledge base)
4. Digital library (creation of efficient
5. Information systems using digital collections for effective browse, search, retrieval and long term preservation).
6. Open access archive (scholarly Institutional Repositories for worldwide access);
7. Consortia based approach to Collection Development.
8. Licensing agreements and access management strategies.

LIBRARY AUTOMATION:

Library automation is a process to atomize the library function such as Online Public Access Catalogue (OPAC), content acquisition, Serials Control etc. It becomes the main base of digital information system. Libraries aspiring for digital libraries with smart environment should ensure the requirement for automation. The main purpose of library automation is to spread knowledge and information more meaningfully. It refers to the use of computer to **automate** the

typical procedures of **libraries** such as cataloging and circulation. **Automation** is a process of using the machinery for easily working and saving the human power and time.
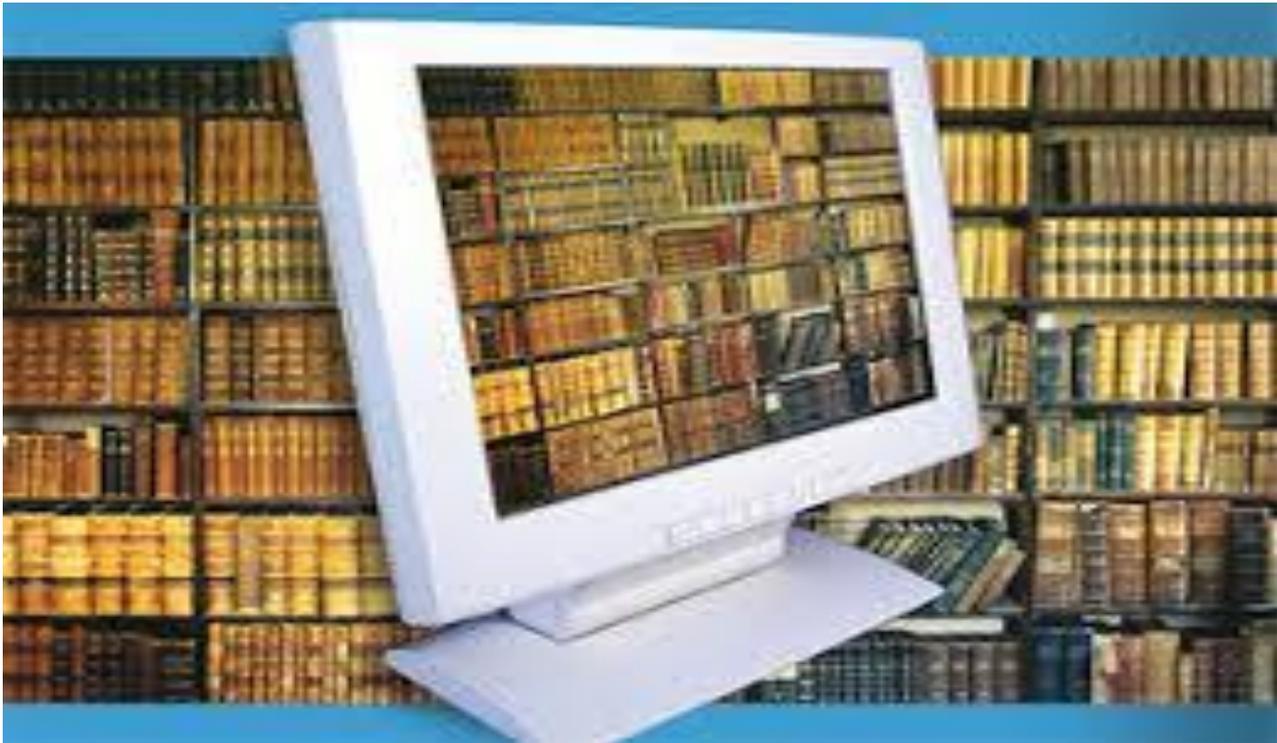

LIBRARY PORTAL:

A library portal is the point place where a large number of web based services occurred. It is the invaluable treasure of the knowledge. A portal provides links in-house recourses as well as outside. The portal accessible throughout the campus viz, the classrooms, faculty rooms, library computer centers, student hostels, faculty residents. There competitors in library portal markets who have recently been awarded such as Axiell Arena: contract with the university of Gavle, BIBIS library portal : contact with ROC Mondrian in Hague.Metalib library portal contact with NASA's Johnson Space center.

DIGITAL LIBRARY:

A **digital library** is a special library with a collection of digital objects such as visual material, audio material, video material, stored as, along with means for organizing, storing, and retrieving the files and media contained in the library collection. Most digital libraries provide a search interface which allows resources to be found. Digital libraries can vary immensely in size and scope, and can be maintained by individuals, organizations, or affiliated with established physical library buildings or institutions, or with academic institutions.[1] The digital content may be stored locally, or accessed remotely via computer networks. An electronic library is a type of information retrieval system. Digital libraries frequently use the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH) to expose their metadata to other digital libraries.

OPEN ACCESS ARCHIVE:

Open Access Archives is a repository of research output and provide free and permanent access to research results. The most frequently used software for Open Access are Digital Commons, D Space and E-Prints. Search harvest the content of open access repositories, constructing a database of worldwide, free of charge available research. It provides a workspace for work-in-progress, and for collaborative or large-scale project. It enabling and encouraging interdisciplinary approaches to research. It maximizing the visibility and impact of these outputs as a result;

CONCLUSION:

In the smart environment there has been a vast outgrowth of e-resources. In order to achieve a substantial increase in the information & knowledge, libraries need a tremendous and a drastic change in their processes and procedures and should

aggressively participate in library consortia. The situation prevailing in the current library that it has reached a critical mass both in terms of the digital collections as well as the number of users. Libraries face many discrepancies even in today's technology so there is more requirements to convert the today's technology in smart environment. With the availability of the state-of-the art information technology solutions and the Web revolution, libraries are now better off in terms of easy access to more information and in the provision of user friendly value added services. It is therefore imperative that libraries resort to access solutions which are simple and easy for the users to cope with. Time has now ripen to a stage that we need to think beyond the framework of digital libraries, and be concerned more about the information strategies for future direction, at least to take care of the immediate requirements. What is important at this juncture is a complete transformation of our present practices and a strategic positioning of our future direction towards information management policies leading to E-Scholarship. Thus it is the need of hour today to change the Digital Landscape in Smart Environment.

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