Anywhere Any Place Any Time Learning Resource Centre Services

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Abstract

In India, Reading habits among the graduate and post-graduate student's community is reduced now a day. Many survey results reveal that almost 50% of students only read their prescribed syllabus books. Occasionally they used to read other than syllabus books, only 30% of students only interested in reading other books as per India Today magazine survey. The main aim of this research is to enhance and motivate the students to access library resources. Almost all the graduate students used to have their smart electronic gadgets and addicted too also. Our main is to use the same intelligent devices to deliver all the library resources to their hand in anywhere, anytime, and any place through the University / Institutional proprietary cloud. The entire library resources converted into digital format, and all the authorized users can access through the institutional Cloud. Also, there is some space to create domain-specific blogs or walls, where the students, faculty and scholars free to discuss for their domain-specific information, which will make the academic fertility to attract more. The primary outcome of this will attract the students in the right direction with good vision.

Keywords:- Learning resource, Cloud computing, Reading habits, Mobile App, Remote Access

I. INTRODUCTION

Libraries are described as social and technological-intellectual infrastructures. It contributes and creates a platform to an extensive network of people to lead their life with peace. The major Indian higher education departments (AICTE, UGC) have to develop a habit of reading among the youngster through various schemes like DELNET, INDEST, IET Digital Library, INFLIBNET, Swayam and NPTEL. As a part of converting the digital world, Indian higher education initiated to design and implementation of smart libraries. Apart from public libraries, academic institutional library usage is needed to improve for the growth of every citizen as well as the country growth.

Once reading practice increased the student forum automatically improved their knowledge, vocabulary, analytical thinking skills, concentration skill and also to reduce their stress. Akanbi Bola Mulikat et all (2018) [1] proposed an ICT based digital library where all local resources can be accessed through online.

Li, J. and Yang, S.,(2018).[2] proposed to Design and Implementation of Information Resource Co-Construction and Sharing System in Electronic Library. In this author tries to design a system to integrate information resource in E-Library. Iwasokun GB, Akinyokun OC.[3]. Proposed a "Development of a multi-tier internet-based library system" in this paper author developed a multi-tier online internet-based library system to access library resources. Gani E, Magoi JS(2014).[4] elaborated the emergence of digital libraries services in Northwest Nigerian Universities: Challenges and opportunities. Also, the author explained a significant bottleneck in implementing digital library services.Verma, L., & Kumar, N. (2018).[5] discusses various software's to be used to convert from traditional library sources to electronic libraries. Digital Library initiatives in India: an overview [6] explains about various digital library initiatives and implementation across India. Also, discuss problems to implement a digital library in India. Archana Saxena1and Dr T. N. Dubey, [7] deals with problems and prospects to implement digital technology in academic libraries. Islam, Shariful and Mostofa, S.K. Mamun (2013).[8] focuses on different library digital resources in various libraries across Bangladesh. Dhanavandan, S., Esmail, S. Mohammed & Nagarajan, M. (2011).[9] focusses the Information Communication Technology (ICT) infrastructure facilities in Self-Financing Engineering colleges Libraries in Tamil Nadu. Library Philosophy and Practice. Also reviewed various pros and cons in implementing the ICT in libraries.

MHRD(Ministry of Human Resource and Development) and UGC(University Grant Commission) are taking many initiatives to make the library resources available to all the users in many ways. As a top administration in higher education in India, UGC is taking macro steps to reach student fertility. The complete success of any initiative depends on how to reach all the end-users effectively using micro-step. It's a responsibility of university / Institutional library to take up all the UGC initiative and their library resources to their customers. There is a significant bottleneck where the library resources are not able to reach the student community. Through this project work, we can fill the gap and enrich the student carrier. To implement this in all libraries, which in turn connect all the local libraries in a single umbrella so that any student from anywhere any place and any time can access other University/Institutional library resources directly. It is much benefited for the graduate student community those who are residing in rural areas can access premium University and institutional resources remotely.

This paper is organized into five sections, section one is brief about introduction with a detailed literature survey, section two explains about the methodology to adopt, and architecture, section three deals with the innovativeness of the research work, section four and five explains about path-breaking research and conclusion.

II.METHODOLOGY

The proposed architecture contains Physical Library services, Conversion of resources from Physical to Digital, University/Institutional Proprietary Cloud and authenticated users can access all the services through web and mobile app on their handheld device at any time at any place. As a First step, all the resources are converted to digital format and the same will be stored in the proprietary Cloud in a normalized way.
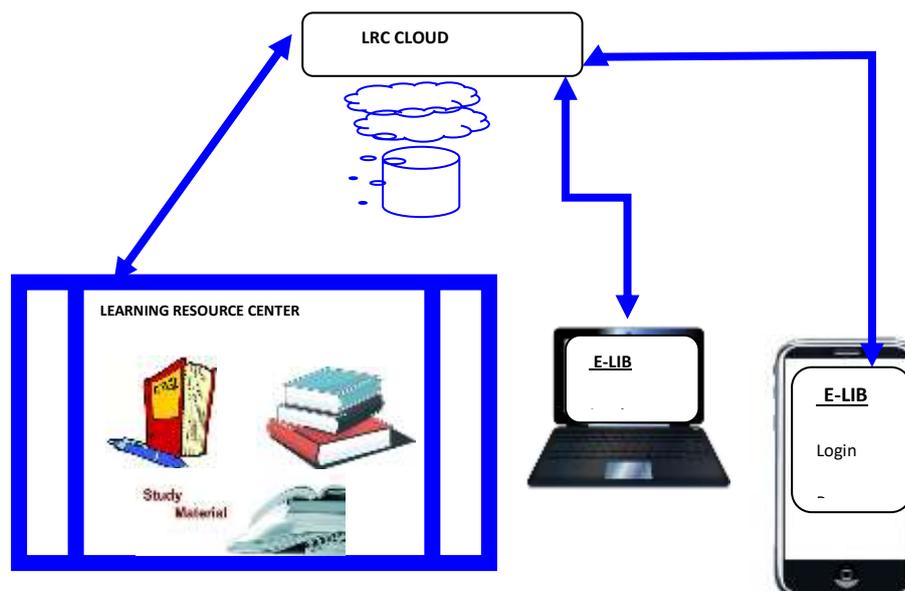
Fig 2.1 Architecture of Connected Cloud LRC Service

Now authorized user can access the E-resources in two different user interface platform such as web app and mobile app. Apart from the local resources, other online subscribed facilities like NDL, NPTEL, MOOC, online journals etc. are also can be linked to the users. Through this user interface the entire authenticated user can access University /Institutional resources, and they are channelled to other external subscribed services to their handheld device in a smarter way.

Features of these interactive interfaces consist of two major sections, such as Internal and Subscribed External Resource. In the internal resource have Books, Journals, Magazines, a Question bank, Video Lecture, and Audio Lecture, Research publications, Newsletter, college magazines and Subject Study materials. Similarly, in External Section provide access to all subscribed services. User can access their E-resources in particular to their specific domain. Also, through this platform, faculty can conduct online test, quiz and assignment to students and evaluate the same.

III.INNOVATIVENESS

➢   Implementing this project as a single step involves the Conversion of the traditional library into Cloud-based Connected E-Library at the same time it can reach to every user through their handheld smart device.

➢   User can access their library resource at any time, any place and anywhere.

➢   Also, they can able to access other resources whatever the university /Institutional library registered and subscribed to external resources.

➢   Provide a space for domain-specific blogs where faculty and students can exchange the knowledge of specific information at any time.

➢   Create a platform to conduct online course materials and online test and quiz to induce and motivate the students to learn lifelong.

➢   Interconnect all the University and institutional Library resources in a single roof.

Any student from anywhere in the universe can access premium University and Institutional resources.

IV.PATH-BREAKING IN THE RESEARCH

This project Proposes to interconnect, i.e. connected all the libraries in the country, which includes Premium University and institution library in a single umbrella. Now there is no barrier for the student to access their own library and remote library resources through their handheld devices. As per many surveys reports, now a day's student's reading and learning habits are getting worst, which is affecting the attitude of the students.

There is a need to do some research and make the students learn and use library resources effectively. But it cannot fulfill the requirement by traditional library mechanism. Need some ways and means to reach the library resources to our customer's hand. By designing proper connected E-Library with some interactive mechanism makes a significant impact on the student community, especially in reading habits.

By changing the reading habit, one can easily change their attitude and make the student into more on career-centric rather than diverting in other directions. So this path-breaking research will make a student in significant transformation in terms of attitude and domain-specific.

In general Libraries are the knowledge resource centres. A huge amount of resources are available across all the libraries in the world. This is the initiative to interconnect all the libraries in our country, which includes premium and NIRF ranked institutions. MHRD and UGC may implement as a policy so that any student in our country can access all the library resources anywhere in the country.

To start with, initially first connect local library, and then subsequently connect single city or all the colleges affiliated to a concerned university can be linked at the micro-level. Then connect all the universities in the state, and it can be linked. This can also be viewed and connected specific domain can be done. Finally, all the universities and institutions can be linked to share all the ineffective resources way for the benefit of students, which in turn improve the quality of education in our country.

It is the responsibility of the university /Institution to produce competent professional to face the societal challenges by imparting quality teaching and learning system as a Library takes central part to provide the quality resources to the students which in turn university /institution will provide quality professionals rather than Noxell to the society.

V.CONCLUSION

Implementing this research project expect the following outcomes.

➢ Local and remote Library resource's at the customer's hand.

➢ Change the students reading habits.

➢ Motivate the students to use Library resources.

➢ Use ICT services in a productive way instead of destructive.

➢ A good number of quality (UGC & Scopus) publications can make.

➢ Massive dataset creation and analysis can be done.

➢ User behaviour study analysis can be done.

➢ Research Scholar can formulate and complete quality research.

➢ Create a connected library to provide all library services to all the students in our country.

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