Contribution of Web Tools in Library Service

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Abstract

There has been the major change in concepts and practices of using library services since last decade. The combination is made of different ideas and services to energize the user. The libraries are well being adapting the emerging technologies for the integration of contents and to provide best advance services. Thirst for knowledge is the inspiring feature of human beings which is fulfilled by library. If proper nourishment is not provided to mind, it get diverted towards negative, destructive and violent activities. Thus libraries are axis point of wisdom world and have their own identity. It is the strongest medium for transforming education and developing awareness in human beings. Especially in academic Organizations it is the center of attraction for all knowledge gainers as well as knowledge imparters or creators. Social Networking is like a blanket of atmosphere, which has covered the human beings in its pressure and has affected their life style. With the use of ICT tools like Social Networking, librarians have reached out globally and providing services 24 by 7 a day. Librarians are now information facilitator's intersection between the new Technologies, Users and Services. Web tools can be explained in terms of three F's **Fast, Find and Friendly**used for three E's **Effective, Evaluate and Engage.** Web 3.0 is third generation of web design that facilitates communication, secure information sharing, interoperability, and collaboration on the World Wide Web using RSS, Tags, Bookmarks, wikis etc. While third generation tools i.e. web 3.0 are intelligent and mobile. Social networking sites and Web 3.0 tools have found to be very useful to professionals in the Library development. Library and Information Professionals (LIP's) and other professionals are embracing these tools for professional and personal development. Social networking and web 3.0 tools fulfill all the five laws of Library Science. This article reports on research that attempted to find out how the web 3.0 tools have contributed to enhance library services.

Keywords: ICT; Web 4.0; Web Tools; Library 3.0; RSS; LIP's; Pod Casting; Mash up; IM (Instant Messaging); Android; iSO.

Introduction

Information Highways are widely considered as the next generation of high speed communication systems. Heraclitus, a Greek philosopher, quoted as saying "**change is the only constant in life**." This saying has also been translated to "the only constant is change." Changing from traditional libraries to digital libraries now known as resource learning centers. And to share information now libraries have to cuddle the Information and communication technological changes. Although we are not born in digital era but we can establish and create digital environment by providing innovative services and set digital domain. Due to information surpluses and every new wave of Information and communication technology becomes the biggest challenge for libraries to satisfy its users'. Using digital smart tools in library services opens gateway to the users to get required information in minimum time. In sharing of knowledge libraries play a vital role where everyone gains something for themselves as libraries are the center of dissemination of knowledge and always

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proved as facilitator and provider for information seekers. The days are gone when preservation or storing of information was main objective of libraries. Now libraries are not limited in boundaries due to influence of ICT and are no longer with image of rows of books on shelves and newspaper lying on the table. Stereotype library has changed its image into virtual library or e library. Paperless resources called E resources like e Books, e journals have replaced the books and the bookshelves with CD's, DVD's etc. and reading tables and reading rooms have changed to laptops, Chat rooms, and social networking. The traditional ways of human interaction in the society has changed and are influenced by web tools. ICT (Information and communication technology) tools has influenced the paper work in such a way that in coming years, paperwork will be out of fashion and everything will be online.

But when libraries entered in digital form it is important to evaluate the services rendered to users and to study their satisfaction level which will make effective improvement to develop ICT plan and improve ICT infrastructure and software in the library. ICT change the way we work but half measures don't work so use of ICT must be with right tools

Web technologies are user-centered and recently widely spread providing collaborative, interactive and communicative infrastructures and services for the creation and consumption of content and Collaborative tagging.

When social networking and web 3.0 related to library, no user wants to visit the library and search the information for hours in the books. Every user needs the ready and instant information without physical labour. Web tools has put its impact on libraries and changed the libraries to cyber.

According to Wikipedia, "Social media are primarily Internet-based tools for sharing and discussing information among human beings. It is because of its concepts that have led to the development and evolution of web-based communities, hosted services, and applications; such as social-networking sites, video-sharing sites, wikis, blogs, and folksonomies, RSS, podcasts and IM (Instant messaging), and Android mobiles and lot many free as well as paid Apps.

Web 3.0 can easily be defined as an intelligent web portability and mobility. Here information is searched, filtered, personalized and shared. It is a social network where people can contribute their knowledge along with consummation of knowledge and information. Social networking is the sets of networks that follow our fundamental right of "Right to freedom

of speech and expression, assembly, association or union, movement, residence, and right to practice any profession or occupation (some of these rights are subject to security of the State, friendly relations with foreign countries, public order, decency or morality). It is a place where we can read and write and share.

Social Networking is the linkage and use of web 2.0 and 3.0 tools to think in new direction for quick and quality services, the exchange of information resources and resource sharing. It is a mode of operation, whereby a number of participants having the same objectives in mind shares information resources. The ultimate aim of networking is to achieve maximum results with minimum input.

WEB 3.0 and Library 3.0 Relation

Inventor of the Web, Sir Tim Berners-Lee described web 3.0:People keep asking what Web 3.0 is. I think maybe when you've got an overlay of scalable vector graphics – everything rippling and folding and looking misty – on Web 2.0 and access to a semantic Web integrated across a huge space of data, you'll have access to an unbelievable data resource...

—Tim Berners-Lee, 2006

Web 3.0 are the tools which have given a new way to improve the Library services and to store the maximum knowledge in minimum space. It is a kind of software, which allows publishing, classifying, sharing and explaining the multimedia data in digital form.

When these third-generation tools related with Library for its improvement for better services are termed as Library 3.0.

WEB 3.0 Tools

• *Social Networking Sites*

Facebook, Twitter, Pinterest, Google Plus+, Tumblr, VK, Flickr, Vine,linkined, Folkdirect , Googlebuz, Hi5 , Myspace, Classmates, meetme etc.

These sites allow the users to link with friends' and community users of same profession to share the new thoughts what's new in the virtual society."A collaborative medium, a place where we all [could] meet, read and write" called"Read/Write Web".

a. *For Education:* Academia.edu Research gat teach streat .term wiki,

b. *For Books:* Anobii, Goodreads, Library thing,

Shelfari, Wattpad,Weread,

c. *Indian Social Networking Sites:* BIGADDA

d. *General Sites:* Facebook, Twitter, Myspace, Qzone, faceparty(U K)

e. *Photo Blogging:* Photolog, My opera

f. Frappr is a bit of a blended network, using maps, chat rooms, and pictures to connect individuals.

• *Whatsup*

WhatsApp is another instant-messaging-focused social network

• *LinkedIn*

LinkedIn is a social network for professionals. It is globally available in 20 different languages and is used by the recruiting professionals for hiring the right candidates.

• **Wikkis (Wikipedia)**

Wikkis are collective works of authors which allow anyone to edit and modify the content.

• *Blogs*

Google, Travel blogs , personal blogs, Fasion blogs, Popular blogs U Tube, Love Blogs, Windows, Livespaces, Blogspot .Com

• *Photo Sharing Sites*

Photobucket, snapfish, Picasa, Web Album, Flicker, Webshots, Social times, fotolog, path etc these sites allow to post picture of various activities related to profession family, friends, social, political involvement and functions

• *Podcasting and Bodcasting*

Audio Video Post cast Directory Podcas Lee, Podo.Com, IPoder.Org, Digital Podcast, Podcast Directory.Com, UTube, Sharing of sites/Streaming, Format and Downloading .

• *RSS*

RSS Security, create RSS, RSS Tutorials, RSS Software, Yahoo RSS. Through RSS it is possible to distribute up to date web content from one web sites to thousands of web sites around the world. RSS Aggregator Installed in a library system helps the users to have customize personal information.

• *InternetWeb Services*

A Web service is a method of communication

between two electronic devices over a network which gives instant result. Instant Messaging IM, Yahoo, Rediffbol, MSN, Chatroom, Folksonomies, Tagging, Cloud tag.

• *iTunes*

iTunes is Web 2.0 tool Where you organize, listen, watch, and play. It can easily browse your entire media collection and organize it in the way you like. And when you want to hear or watch something, it's just a click away. Finally, you can buy individual songs instead of having to buy whole albums.

• *Papyrus*

It is a open source tool for graphical UML. It offers streamline and organized management of staff members on intranet. Easily share and collect documents, notes, online forms and much more.

• *Stencyl*

Stencyl helps to create Flash games in a flash with or without coding.

• *Flook*

Find and share local secrets. A brand new iPhone application that discover and share the world around you by simply swiping through a stream of nearby flook cards.

• *Dapsem*

This platform allowing people to show their appreciation to their friends (and soon other stuff), offline and online.

• *Magisto*

It simply makes your video worth sharing it will make a long video to great-looking clip you would be proud to share in few clicks.

• *BO.LT*

It is a page sharing net work and remix the pages and share with your friends

• *Skindler*

Skindlers a new narrative for people to work together more effectively over the web.

• *Simplybook.ME*

A Simple to setup web booking application that

can also be easily installed on company face book fan pages where fans can directly make their appointment bookings.

- *BRE.AD*

Bre.ad allows you to customize your own digital billboard to recommend anything you want. Some bakers choose to Promote their personal brand; other like to recommend their favorite things.

- *Readings*

Readings, an on line community built exclusively for people who care about news,videos and want to stay up-to -date. It lets you read and watch your desired news, reviews, videos, etc. In a clean UI.

- *Recipefy*

Recipefy is an easy to use recipe manager to create and share your cook book online. Organize recipes by tag, share it with your friends and book mark your favorite one from people around the world.

- *Mashup*

A Site should allow the users to access the third party data using API(Application Programmer Interface)and Increase the value of site users" it is a merging of to or more software tools for the enrichment of web users. Mashup mixes content from independent sources to create something new. In simple way it is addition of some thing from one and something from other to get new taste.

- *Flickr*

A site for viewing and sharing photographic images.

- *Slide Share*

A site for viewing and sharing PowerPoint presentations, Word documents, or Adobe PDF Portfolios.

- *YouTube*

A site for viewing and sharing online videos.

Important Mashup

20.1 Library Thing-Site for Book Lover which helps to create Quality Cataloge of books. Library thing Connect people based on books they share.

20.2 Book Price (.net)- Provide quick way to compare the prices of any in print book. This sites collects the prices of different on line book store.

20.3 Book finder 4 U.com- It is a free service that search more than 200 Books store & 90000 booksellers worldwide to find the lowest book price at a click. Goal is simple to provide a book with price comparison service.

20.4 Journal junkje.com-It is a free service for medical practitioners providing latest medical news, Summaries etc.

20.5 Libwarm.com-Site for Library Professionals It Collects updates from RSS Feeds.

20.6 Book jetly.com-It is Social Site that connects with several Libraries sites& Checks books availability in libraries.

20.7 XISBN (Worldcat.org/offilate/web services/xisbn/app.jsp)

Now all these are available on mobiles called Android cell with n number of Apps which are paid as well as free to install. Due to mobile technology everything has become available at anytime anywhere in pocket and on finger tips. This is all the Third generation Web Tools 3.0. and when used in library are library 3.0.

Web 4.0 Tools: According to Burrus, Web 4.0 is about "the ultra-intelligent electronic agent". It is read-write-execution-concurrency web with intelligent interactions. Still no exact definition is available. It is also called symbiotic web in which human mind and machines can interact in interdependence. It gives transparency, authority, sharing, partnership and association in communities. It makes job simple more searchable and customized.

But library 4.0 has not been more written and implemented. It can be said that library 4.0 is more intelligent and logical, Open source, Big Data and based on Cloud service. May be devices recognize you by voice, face etc.

Use of Web 3.0 Tools in Library Services

Social Networking Sites for Libraries

Users can create accounts with the library network, see common information needs, recommend resources to one another, and through network recommends resources to users, based on similar profiles, demographics, view previously -accessed sources.

Web 4.0 & 3.0 Tools/Library 4.0 &3.0 tools	Library 3.0 applications		Cases
Open Source	•	Koha, Dspace Green stone software	IIT Kharagpur library (http://www.library.iitkgp.ernet.in) IIM Kozekodehttp://dspace.iimk.ac.in
RSS (really simple syndication)	•	Announcing arrival of new books, journal and databases	New York University Library(http://library.nyu.edu/feeds) using feed for providing more general to specific information, like Library instruction Classes, library
	•	Promote event organized by library and institution.	orientation, atabase search, database anagement, Library News: about library hour, new event New Arrivals of Library Recent Acquisition New Announcing by Library
	•	Display important Notices/ Orders rules and regulations as well as guidelines.	ConcordicUniversity Library, Canada (portal@concordia.ca)
Wikkis	•	Training Tool	Liblink: providing tips for better use of library Ohio Uni.LibraryBizWiki
	•	Library website	(http://www.library.ohiou.edu/subjects/bizwiki/index.ph p/Main Page) is a ollection of business Reviews of reference
	•	Subject guide	sources databases, books websites etc. http://www.seedwiki.com/wiki/butler-wikiref
	•	Library suggestion	Wiki used a Subject Guide at Ohio University
	•	Wiki Reference lists	http;//www.library.ohiiou.edu/subjects/bizwia/index.php /Main-Page Information resources of Ohio state university library. Its contain article, reference book, business website and other research guide. They have also provided service for online chat through Library Services Electronic Resources Wiki (http://library.hud.ac.uk/wiki/Main_Page) Wellesley College Library (http://wellesleylibrary.blogspot.com)
Blogs	•	Support Library instruction	Blog provided link to valuable information pertaining to
	•	Staff Communication	student need. Library also providing information
	•	Subject Resources	regarding exam schedule, changes in library timing, link to
	•	Course Materials	new resources, education CD and video.
	•	Breaking News	
	•	To Highlight Library Services	
	•	To Highlight New Reading Material	
	•	Encourage Feedback from their Patrons	
Photo Sharing	•	Event: annual	Wisblawg-From the UW Law Library University of
	•	symposium, Library	wisconsin law school Library Alliant International
	•	Function, Book Sale	University(SMS to 707-968-7542) American University
	•	Regular occurrence, tour references, transaction, computer use, classroom scene	Library(DC) -Uses Google Voice(Send SMS to 571-766-6349
	•	Library poster	Arizona State University Library
	•	To Show the Library activity through photo sharing websites	(http://www.flickr.com/photos/asulibraries/ sets/72157601621243043/) has two type of collection ASU Libraries events(event organized by ASU libraries)and about ASU Libraries.
			American Library Association http://www.flickr.com/photos/ala_members/ala_member s/) (customer.services@uwe.ac.uk)
			National Library of Austraila Canberra, ACT 2600 Australia. (http://www.iprelay.com.au//call/index.aspx)
IM Messenger (Chat Reference)	•	Virtual reference	American University Library
	•	Research Assistant	(http://www.library.american.edu/ask/im.html) using
	•	On line references SMS & Video reference	virtual reference service for providing on line reference for researchQuestions from student and faculty.
Social Networking Software	•	As web portal	KendriyaVidyalayaPattron Thiruvananthapuram, kerala, India
	•	For Library Promotion new arrivals of Books, Journals etc	(http://www.Libzine.wordpress.com

	• New Events, NewWritings, Articles	Arapahoe Library District: http://www.myspace.com/arapahoelibrary
	• E-mail Alerts.	The Brooklyn College Library: http://www.myspace.com/brooklyncollegelibrary
	• Institution Notices/ Circular	The Denver Public Library: http://myspace.com/denver_evolver
	• Holidays List	
	• Library Rules and Membership Procedures.	Lancaster Library (UK): http://www.myspace.com/getitloudinlibraries
	• Extension of Library website	The Steele Creek Library: http://myspace.com/steelecreeklibrary
	• Catalogue , database search	The Stoneham Public Library: http://www.myspace.com/stonehamlibrary
		Hennepin County Library: http://www.myspace.com/hennepincountylibrary National Library of Scotland Flickr page http://www.smartplanet.com/blog/pure-genius/social-networking-and-a-free-library-for-science-buffs/2416 Syracuse University Library(http://www.facebook.com/group.php?gid=2380333929) has a Profile in face book. This was designed to connect student with Library in L2 way. Library provided link to library catalogue for book, database search, chat reference and changing library Schedule.
MASHUPS	• To share the digital content • Library OPAC • Visualizing Your Bookshelf	LazyLibrary - it looks at Amazon but it could look at a library catalog. LibraryThing API includes Common Knowledge, a Library Thing technology that lets you contribute interesting facts and data about books, authors, editions, and other items within the Library Thing univers Branch Locations, Cambridge Public Library, Cambridge, Ontario. Library Addresses + Google

Conclusion

The study results that use of web tools applications in Library enhance user experience and interest. Social Networking and Web tools Applications when implemented in library it results in three F's by finding the information effectively, fast service and friendly with users. Use of web Technology in Libraries have developed the library service at par resulting in three E's Effective services, Evaluation of services and Engagine the reader with updated informations. In coming decade these ICT web tools will no doubt change the traditional libraries into virtual library. Use of Internet tools in library made the information easily available, inter linked, inter changeable and inter disciplinary. Librarian has to accept the challenge of new generation web tools and make himself fully acquainted with the technologies. Library and information professionals and other professionals are embracing these tools for Professional and personal development. Social Networking is the linkage and use of web 3.0 tools to think in new direction for quick and quality services, for exchanging of information resources and resource sharing. The ultimate aim of networking is to achieve maximum results in minimum time. The best conception of library 3.0 at this point in time would be a social network interface that the user designs. It is a Personalized OPAC that includes access to IM, RSS feeds, blogs, wikkis,tags,and public and private profiles within not only in the library's network but also on mobiles.

Library 3.0 is not about searching but findings not about access. Sharing Library 3.0 recognizes that human beings do not seek and utilize information as individuals but as communities. Library and information professionals and others in their workplaces are responding to the increasing importance and visibility of web tools and social networks at work. At last social networking has become basic need of Information Centers.

References

1. Casey, Michael. (2005). Working Towards a definition of Library 2.0. Library Crunch, from http://www.librarycruhch.com.

2. O'Reilly Tim. What is Web 2.0? available at http:..oreillynet.com/Ipt/a/6228

3. Chua, A. Y. K., & Goh, D. H. (2010). A study of Web 2.0 applications in library websites. Library &Information Science Research, 32(3), 203-211.

4. Miller, P.(2005).Web 2.0: Building the New Library. Ariadne, 45, retrieved 6 December, 2007 from http://www.ariadne.ac.uk/ issue45/miller/.

5. http://en.wikipedia.org/wiki/Library_3.0

6. http://en.wikipedia.org/wiki/Image:Feed-icon.svg

7. ARL: Association of College and Research Libraries (ACRL), a division of the American Library Association, is a professional association of academic librarians and other interested individuals. (http://www.ala.org/ala/acrl/aboutacrl/whatisacrl/whatacrl.cfm

8. http://www.oreilly.com/pub/a/oreilly tim/news/ 2005/09/ 30/what-is-web-20.htm

9. http://news.techtribe.com/news/bus_stan_oct06.html

10. Pienaar, Heila and Smith, Ina. Development of a Library 2.0 Service model for an African Library. World Library and Information Congress: 73 IFLA General Conferences and Council. 2007. Retrieved 15 December 2007, from : http://www.ifla.org/IV/ifla73/ papers/146-Pienaar_Smith-en.pd.

11. Maness, J.M. Library 2.0 Theory: Web 2.0 and its Implication for Libraries. Webology, 2006;3(2). Retrieved December 8,2007 from : http://www.webology.ir/2006/ v3n2/ 25.html.

12. Anderson, C. The Long Tail. Wired, 2004 Oct;12(10). Retrieved 14 November 2007, from :http://www.wired.com/wired/archive/12.10/tail.html.

13. Casey, M. Retrieved Nov. 16, 2005. Web site: http://www.librarycrunch.com/.

14. Enhart, A., & Madden, M. Teen Content Creators and Consumers: More than half of online teens have created content for the internet; and most teen downloaders think that getting free music files is easy to do. 2005. Retrieved May 2, 2006, from http://www.pewinternet.org/pdfs/PIP_Teens_Content_Creation.pdf

15. Stephens, M. ALA TechSource - Do Libraries Matter: On Library & Librarian 2.0. 2005. Retrieved Nov. 17, 2006, from American Library Association. Web site: http://www.techsource.ala.org/blog/2005/11/do-libraries-matter-on-library-librarian-20.html.

16. webopedia.

17. Choudhary, N. Interaction between humans and machines. International Journal of Computer Science and Information Technologies (IJCSIT) 2014;5(6): 8096-8100.