

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

---

Library Philosophy and Practice (e-journal)

Libraries at University of Nebraska-Lincoln

---

Winter 2021

## Implementation of web 2.0 in the library websites of universities of North-East India: An analytical study

Hrishikesh Bhuyan

hrishikeshbhuyan1@gmail.com

Shekharjyoti Neog

shekharjyotineog@gmail.com

Follow this and additional works at: <https://digitalcommons.unl.edu/libphilprac>



Part of the [Library and Information Science Commons](#)

---

Bhuyan, Hrishikesh and Neog, Shekharjyoti, "Implementation of web 2.0 in the library websites of universities of North-East India: An analytical study" (2021). *Library Philosophy and Practice (e-journal)*. 6539.

<https://digitalcommons.unl.edu/libphilprac/6539>

# Implementation of web 2.0 in the library websites of universities of North-East India: An analytical study

**Hrishikesh Bhuyan<sup>1</sup>**

Librarian

Anandaram Dhekial Phookan College

Nagaon, Assam-782002

E-mail: [hrishikeshbhuyan1@gmail.com](mailto:hrishikeshbhuyan1@gmail.com)

Mobile: [9435601105](tel:9435601105)

**Shekharjyoti Neog<sup>2</sup>**

Assistant Librarian

Central Library

Mahapurusha Srimanta Sankaradeva

Viswavidyalaya,

Nagaon, Assam-782001

E-mail: [shekharjyotineog@gmail.com](mailto:shekharjyotineog@gmail.com)

Mobile: 9435896387

## Abstract:

For moving with the flow in this technology driven environment, the libraries have been forced to adopt new technologies and tools. Now-a days, along with the traditional services the libraries have been adopting Web2.0 tools for providing user oriented services to their users. This paper is a web based survey of library web pages of universities of North-East region of India regarding application of Web 2.0 technology. Here, an attempt is made to gain a picture of the status of application of web 2.0 services by the university libraries of the region. The study has been conducted through the official websites of the universities and the result shows that 78% of the university libraries have websites/webpages and 26% university libraries have implemented web 2.0 tools to serve their users.

Keywords: North-East India, University library, Web 2.0, Webpage, Website, UGC.

## 1. Introduction:

The beginning of the 21<sup>st</sup> century has witnessed a major transformation in the management and dissemination of knowledge in libraries. The new techniques and technologies have enabled the libraries to develop new services suitable for its users. Libraries are subscribing electronic resources, online database, web based resources for their users with the help of ICT. With the massive use of social networking sites (SNS) and other two way communication technology, the information seeking pattern of people are getting changed day by day. Therefore the libraries are adopting new techniques for promoting and disseminating its resources to its users in a more user friendly and easily accessible way. University libraries are always regarded as the knowledge centres and they are using new tools and techniques to

provide best possible services towards its users. Web 2.0 is a term that was first documented by Tim O'Reilly (2005) refers to basic transformations in the websites from the static and non-interactive to the dynamically generated, more sophisticated and more user friendly one through a greater range of software applications. Web2.0 refers to the second generation web technology through which the libraries provide a two way communication between the users and libraries. The implementation of web 2.0 technologies increases the reach of the libraries to more users and thereby gaining numbers of potential users. Web 2.0 offers libraries a platform from where they can interact with their patrons. Applying Web 2.0 technologies on library websites, libraries can encourage participation, collaboration and seek feedback from the user's community. Web 2.0 does not replace the existing technology used by libraries but rather adding more value to the services that is provided by the library. Some of the popular web 2.0 technologies are being used by the libraries are RSS (Really Simple Syndication), Social Networking Sites (SNS), Social Bookmarking, Blogs, Instant messaging (IM), Podcast etc. The main objective of the study was to find out the implementation of web 2.0 technology in the library websites of universities of northeastern region of India. The study also has been carried out with an objective whether these technologies helps the libraries for dissemination of library resources as well as increases the numbers of potential users.

## **2. Literature Review:**

There are number of literatures published on the issue of implementation of web 2.0 technology on the websites of libraries of academic institutions as well as other websites. A few have been followed in preparing this paper.

Ahmad & Siddique (2011) conducted a study to assess and highlight the potential of web 2.0 in the context of libraries. According to them the web 2.0 features are opening new avenues and giving libraries the ability to offer the improved, customer driven services to the user communities.

Chua & Goh (2010) did a extensive study including 120 library websites from North America, Europe and Asia, using content analysis method. It was found that the libraries in North America leads in applying web 2.0 applications in comparison to their European and Asian counterparts.

Haneefa & Jasna (2014) did a content analysis of the application of web2.0 in online newspapers which gives a clear picture of the web 2.0 tools used on websites.

Majumder (2012) in his study regarding the application of web 2.0 technology on the library webpages of different universities and institutes of West Bengal, has found that only a few universities have applied web 2.0 on their library webpages.

Sahoo & Panda (2017) after analyzing the websites of the 16 nos. of IITs described that all the libraries are using atleast more than one web 2.0 tools for their library users.

Tyagi (2012) did a study on the use of web 2.0 technology by library professionals of selected engineering colleges in Western Uttar Pradesh have recommended that the LIS professionals should be encouraged towards adoption of web 2.0 technologies in the library by providing training to the staff.

Verma & Verma (2014) described in their paper that large number of central universities in india are using web 2.0 technologies to provide better services to their potential users.

Walia and Gupta (2012) conducted a vast study on 66 national library websites of the world on their adoption of web 2.0 technologies with the help of an online survey. The finding shows that 42% of the libraries use one or more web2.0 technologies and the popular tools are RSS, SNS and microblogs.

### **3. Statement of the problem:**

It is observed that web 2.0 technologies offer a variety of platforms to the libraries where they can encourage the participation, users' collaboration and also seek feedback from user community. So, this study has been conducted to investigate the use of web 2.0 technologies by the university libraries of North-Eastern India.

### **4. Scope and Limitation of the study:**

The study will investigate the library websites of universities of North-Eastern region of India. As on today (2021) the North-East India houses 72 UGC recognized universities (Source: <http://www.ugc.ac.in>). This study has been concentrated on the state and central universities (Table 1), which have been accredited by NAAC (National Assessment and Accreditation Council). Hence, the present study has been confined only to 27 numbers of universities of the region.

<b>State</b>	<b>No. of State University</b>	<b>No. of Central University</b>	<b>NAAC Accreditation</b>
Assam	12	02	Yes (Only 6 nos. of universities have been accredited so far)
Arunachal Pradesh	-	01	Yes
Manipur	03	03	Yes
Meghalaya	-	01	Yes
Mizoram	-	01	Yes
Tripura	01	-	Yes
Sikkim	01	01	Yes
Nagaland	-	01	Yes

## **5. Objectives:**

The main objective of this study is to investigate the implementation of web 2.0 in the library websites of universities of Northeast India. Followings are the specific objectives lined up in order to meet the main objective.

- i) To find out the availability of library websites or webpages of universities of North-East India.
- ii) To find out the status of implementation of web 2.0 technologies by the university libraries.
- iii) To find out the web 2.0 tools available in university library websites.

## **6. Methodology:**

The list of UGC recognized state and central universities of North-East India has been retrieved from the official website of University Grants Commission. All the websites of the selected universities have been visited to find out any web 2.0 icons on the library web pages. The available links have been followed to check the presence of web 2.0 tools. The collected data have been organized in tabular form on the basis of which further analysis has been done.

## **7. Data Analysis:**

The list of the UGC recognized universities of North-East India has been collected from the official website of University Grants Commission (<http://www.ugc.ac.in/>). The names and address of the universities accredited by NAAC (National Assessment and Accreditation Council) along with their types and websites are given in table 1.

**Table 1. Universities of Northeast India**

SN	University	State	Estd.	Type	Websites
1.	Gauhati University	Assam	1948	State	<a href="http://www.gauhati.ac.in">www.gauhati.ac.in</a>
2.	Dibrugarh University	Assam	1965	State	<a href="http://www.dibru.ac.in">www.dibru.ac.in</a>
3.	Assam Agricultural University	Assam	1969	State	<a href="http://www.aau.ac.in">www.aau.ac.in</a>
4.	North Eastern Hill University	Meghalaya	1973	Central	<a href="http://www.nehu.ac.in">www.nehu.ac.in</a>
5.	Manipur University	Manipur	1980	Central	<a href="http://www.manipuruniv.ac.in">www.manipuruniv.ac.in</a>
6.	Rajib Gandhi University	Arunachal Pradesh	1985	Central	<a href="http://www.rgu.ac.in">www.rgu.ac.in</a>
7.	Central Agricultural University	Manipur	1993	Central	<a href="http://www.cau.ac.in">www.cau.ac.in</a>
8.	Tezpur University	Assam	1994	Central	<a href="http://www.tezu.ernet.in">www.tezu.ernet.in</a>
9.	Assam University	Assam	1994	Central	<a href="http://www.aus.ac.in">www.aus.ac.in</a>
10.	Nagaland University	Nagaland	1994	Central	<a href="http://www.nagalanduniversity.ac.in">www.nagalanduniversity.ac.in</a>
11.	Sikkim State University	Sikkim	1996	State	<a href="http://www.sikkimstateuniversity.com">www.sikkimstateuniversity.com</a>
12.	Mizoram University	Mizoram	2001	Central	<a href="http://www.mzu.edu.in">www.mzu.edu.in</a>
13.	Sikkim University	Sikkim	2007	Central	<a href="http://www.cus.ac.in">www.cus.ac.in</a>
14.	Bodoland University	Assam	2009	State	<a href="http://www.bodolanduniversity.ac.in">www.bodolanduniversity.ac.in</a>
15.	Krishna Kanta Handique State Open University	Assam	2009	State	<a href="http://www.kkhsou.in">www.kkhsou.in</a>
16.	Assam Science & Technology University	Assam	2010	State	<a href="http://www.astu.org.in">www.astu.org.in</a>
17.	Srimanta Sankaradeva University of Health Sciences	Assam	2010	State	<a href="http://www.ssuhs.in">www.ssuhs.in</a>
18.	National Law University and Judicial Academy	Assam	2011	State	<a href="http://www.nluassam.ac.in">www.nluassam.ac.in</a>
19.	Kumar Bhaskar Varma Sanskrit & Ancient Studies University	Assam	2011	State	<a href="http://www.kbvsasun.ac.in">www.kbvsasun.ac.in</a>
20.	Assam Rajib Gandhi University of Co-Operative Management	Assam	2012	State	<a href="http://www.argucom.org.in">www.argucom.org.in</a>
21.	Assam Women's University	Assam	2013	State	<a href="http://www.awu.ac.in">www.awu.ac.in</a>
22.	Manipur University of Culture	Manipur	2015	State	<a href="http://www.muc.ac.in">www.muc.ac.in</a>
23.	Maharaja Bir Bikram University	Tripura	2015	State	<a href="http://www.mbbuuniversity.ac.in">www.mbbuuniversity.ac.in</a>
24.	Manipur Technical University	Manipur	2016	State	<a href="http://www.mtu.ac.in">www.mtu.ac.in</a>
25.	Cotton University	Assam	2017	State	<a href="https://cottonuniversity.ac.in/">https://cottonuniversity.ac.in/</a>
26.	Dhanamanjuri University	Manipur	2018	State	<a href="http://www.dmu.ac.in">www.dmu.ac.in</a>

Table 2 shows the availability or non availability of library webpages of the universities with their links. The status of implementation of web 2.0 tools is showed in table.3.

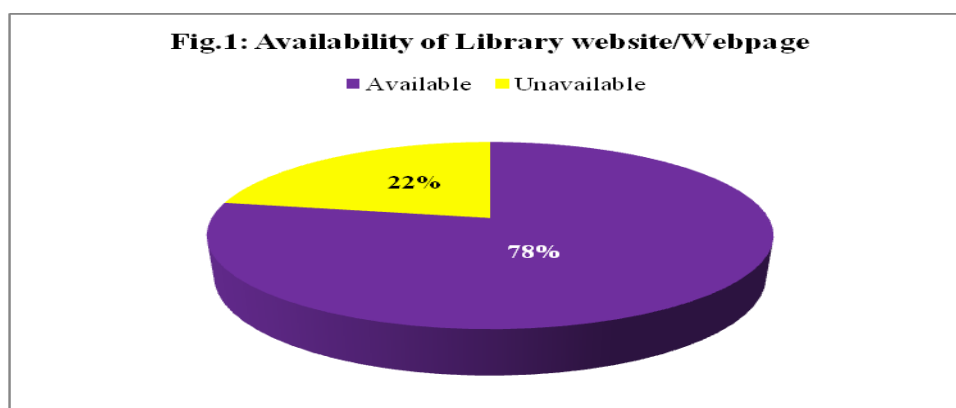
**Table2.Library webpage status with link**

SN	Name of University	Availability of Library website/Webpage	Library Website/Webpage Link
1.	Gauhati University	Available	<a href="https://www.gauhati.ac.in/footerlink/library-&amp;-digital-resources">https://www.gauhati.ac.in/footerlink/library-&amp;-digital-resources</a>
2.	Dibrugarh University	Available	<a href="https://dibru.ac.in/portals/Inblibrary/temp/index.htm">https://dibru.ac.in/portals/Inblibrary/temp/index.htm</a>
3.	Assam Agricultural University	Available	<a href="http://www.aau.ac.in/index.php/academics/library">http://www.aau.ac.in/index.php/academics/library</a>
4.	North Eastern Hill University	Available	<a href="https://www.nehu.ac.in/library/index.html">https://www.nehu.ac.in/library/index.html</a>
5.	Manipur University	Available	<a href="https://www.manipuruniv.ac.in/p/library">https://www.manipuruniv.ac.in/p/library</a>
6.	Rajiv Gandhi University	Available	<a href="https://rgu.ac.in/library">https://rgu.ac.in/library</a>
7.	Central Agricultural University	Not Available	-
8.	Tezpur University	Available	<a href="http://www.tezu.ernet.in/Library/">http://www.tezu.ernet.in/Library/</a>
9.	Assam University	Available	<a href="http://www.aus.ac.in/library/">http://www.aus.ac.in/library/</a>
10.	Nagaland University	Available	<a href="https://library.nagalanduniversity.ac.in/">https://library.nagalanduniversity.ac.in/</a>
11.	Sikkim State University	Not Available	-
12.	Mizoram University	Available	<a href="https://lib.mzu.edu.in/">https://lib.mzu.edu.in/</a>
13.	Sikkim University	Available	<a href="https://library.cus.ac.in/">https://library.cus.ac.in/</a>
14.	Bodoland University	Available	<a href="http://www.bulibrary.in">www.bulibrary.in</a>
15.	Krishna Kanta Handique State Open University	Available	<a href="http://library.kkhsou.in/">http://library.kkhsou.in/</a>
16.	Assam Science & Technology University	Available	<a href="http://astu-opac.koha.co.in/">http://astu-opac.koha.co.in/</a>
17.	Srimanta Sankaradeva University of Health Science	Not available	-
18.	National Law University and Judicial Academy	Available	<a href="http://librarynlujaa.blogspot.com/">http://librarynlujaa.blogspot.com/</a>
19.	Kumar Bhaskar Varma Sanskrit & Ancient Studies	Available	<a href="https://www.kbvsasun.ac.in/Library.php">https://www.kbvsasun.ac.in/Library.php</a>

---

20.	Assam Rajib Gandhi University of Co-operative Management	Not Available	-
21.	Assam Women's University	Available	<a href="https://centrallibraryawu.blogspot.com/">https://centrallibraryawu.blogspot.com/</a>
22.	Manipur University of Culture	Available	<a href="https://muc.ac.in/muc-library-system/">https://muc.ac.in/muc-library-system/</a>
23.	Maharaja Bir Bikram University	Available	<a href="https://mbbuniversity.ac.in/library-details">https://mbbuniversity.ac.in/library-details</a>
24.	Manipur Technical University	Available	<a href="http://mtu.ac.in/library/">http://mtu.ac.in/library/</a>
25.	Cotton University	Available	<a href="http://skblibrary.cottonuniversity.ac.in/">http://skblibrary.cottonuniversity.ac.in/</a>
26.	Dhanamanjuri University	Not Available	-
27.	National Sports University	Not available	-

The Fig.1 shows that out of 27 Universities of North-East India, 21 (78%) University Libraries have Library Website/Webpage.

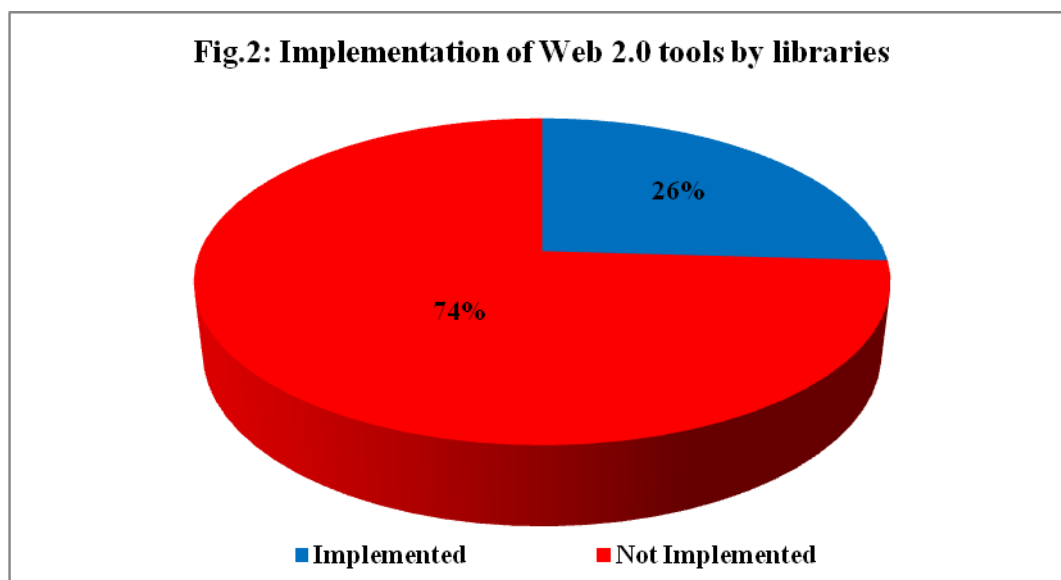


**Table 3: Implementation of Web 2.0 tools in libraries**

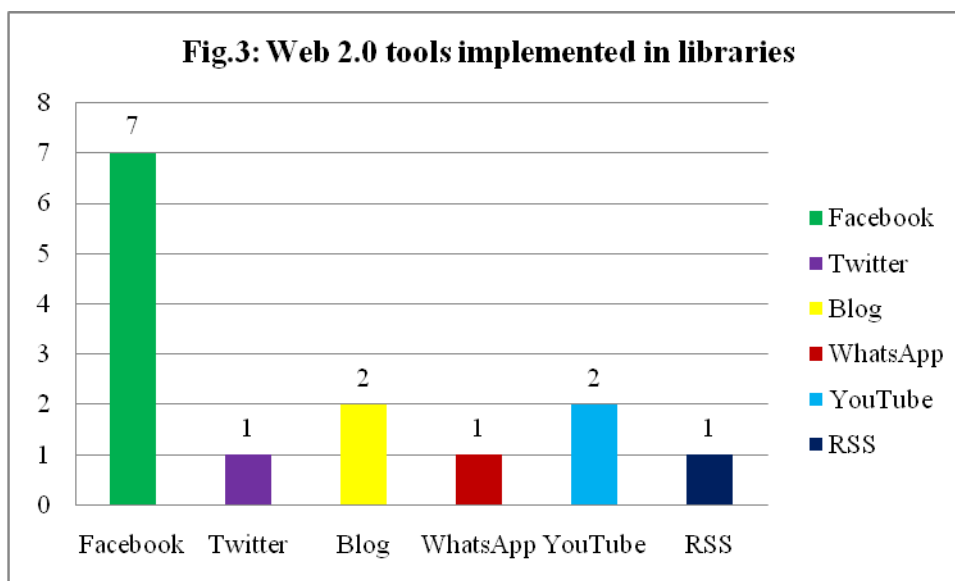
SN	Name of University	Implementation of Web 2.0	Web 2.0 Tools Used
1.	Gauhati University	Yes	Facebook
2.	Dibrugarh University	Yes	Facebook, Blog
3.	Assam Agricultural University	No	-
4.	North Eastern Hill University	No	-
5.	Manipur University	No	-
6.	Rajiv Gandhi University	No	-
7.	Central Agricultural University	No	-
8.	Tezpur University	Yes	Blog, Facebook, Twitter, YouTube



9.	Assam University	Yes	Facebook
10.	Nagaland University	No	-
11.	Sikkim State University	No	-
12.	Mizoram University	No	-
13.	Sikkim University	Yes	Facebook
14.	Bodoland University	No	-
15.	Krishna Kanta Handique State Open University	No	-
16.	Srimanta Sankaradeva University of Health Sciences	No	-
17.	Assam Science & Technology University	No	-
18.	National Law University and Judicial Academy	Yes	Facebook, WhatsApp, RSS, YouTube
19.	Kumar Bhaskar Varma Sanskrit & Ancient Studies University	No	-
20.	Assam Rajib Gandhi University of Co-Operative Management	No	-
21.	Assam Women's University	No	-
22.	Manipur University of Culture	No	-
23.	Maharaja Bir Bikram University	No	-
24.	Manipur Technical University	No	-
25.	Cotton University	Yes	Facebook
26.	Dhanamanjuri University	No	-
27.	National Sports University	No	-



The Fig.2 shows that out of 27 Universities of North-East India, only 7 (26%) University Libraries have implemented Web 2.0 tools.



The above figure (Fig.3) shows different Web 2.0 tools implemented in the University libraries in North-East India. It is found from the figure (Fig.3) that Facebook (7) is the mostly used Web 2.0 tool by the University libraries in North-East India followed by Blog (2), YouTube (2), Twitter (1), WhatsApp (1) and RSS (1).

## 8. FINDINGS:

From the analysis of the data it was found that 21 (78%) University Libraries of the Universities in the North-East India have Library Website/Webpage and only 7 (26%) University Libraries have implemented Web 2.0 tools. The study also revealed that Facebook (7) is the mostly used Web 2.0 tool by the University libraries in North-East India followed by Blog (2), YouTube (2), Twitter (1), WhatsApp (1) and RSS (1).

## 9. SUGGESTIOS & RECOMMENDATION:

On the basis of the findings of the study the following suggestions have been put forwarded:

- i) Although majority of University Libraries of the Universities in the North-East India have Library Website/Webpage, the figure should be 100% as the websites can give an overall idea about the holdings and quality of a library and hence more users can be attracted.
- ii) In addition to the websites, Web 2.0 tools can give more visibility to a library as most of today's academic communities use Web 2.0 tools for various academic as

well as social purposes. Therefore, there is a need of implementing Web 2.0 tools by the University libraries.

- iii) It is also important to use different Web 2.0 tools equally and actively to reach all sections of the user community. Therefore, the University libraries should implement different Web 2.0 tools equally and actively for marketing their resources and services to all sections of the user community.

## **10. CONCLUSION:**

Web 2.0 tools have opened up the scope of serving the library users in an interactive environment and hence it has enabled the libraries to provide library resources and services to their users according to their need over the web. The result of the study reveals that most of the university libraries have websites/webpages. But to survive with the rapid changing environment, there is a need for all the libraries to have their own website/webpage.

The study also revealed that the use of web 2.0 tools by the university libraries of the North-East India is in very initial stage. But to remain relevant with the demand of the scenario, it is important for the libraries to adopt all the new technologies and means. For this purpose, there is a need for exercises of imparting professional training, inculcating the interest to learn and to apply modern technologies among the library personnel.

## **REFERENCES:**

- Aqil, M., Ahmad, P., and Siddique, M.A. (2011), Web 2.0 and libraries: facts or myths, *DESIDOC Journal of Library and Information Technology*, 31(5), 396-400. Retrieved from <http://publications.drdo.gov.in/ojs/index.php/djlit/article/view/1198>
- Chua, A.Y.K., Goh, D.H. (2010), A study of web 2.0 applications in library websites, *Library & Information Science Research*, 32, 203-211. Retrieved from <https://ejournals.library.ualberta.ca/index.php/EBLIP/article/.../9474/1513>
- Haneefa, K.M., Jasna, K. (2014), Web 2.0 applications in online news papers: a content analysis, *Annals of Library and Information Studies*, 61, 307-319. Retrieved from <http://nopr.niscair.res.in/handle/123456789/30338>

Majumder, S. (2012), Web 2.0 tools in library webpages: survey of universities and institutes of national importance of West Bengal, *DESIDOC Journal of Library and Information Technology*,32(2),167-170.Retrievedfrom

O'Reilly, T. (2005). *What is web2.0: Design pattern and business models for the next generation of software?* Retrieved from<http://www.oreillynet.com/pub/a/oreilly/tim/news/2005/09/30/what-is-web-20.html?page=1>

Tyagi, S. (2012), Use of web 2.0 technology by library professionals: study of selected engineering colleges in western Uttar Pradesh, *DESIDOC Journal of Library and Information Technology*, 32(5), 439-445.Retrieved from <http://publications.drdo.gov.in/ojs/index.php/djlit/article/view/2655>

Walia, P.K., Gupta, M. (2012), Application of web 2.0 tools by national libraries, *Webology*, 9(2).Retrieved from <http://www.webology.org/2012/v9n2/a99.html>