Digital India Effect, Digital Library Trends at Rural West Bengal Colleges Library

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Abstract

Applied rural academic library on user service concept recover, academic library traditional concept change into digital library .The Digital Library becomes an essential part of knowledge in the field of systematic library systems. West Bengal rural College library is prosper about ICT Conception new librarian college Governing Body ,Other committee, library Committee interest Head of Institution.

Keywords: Digital Library, Information Retrieval, Archiving, Databank, Modern Library Users Trends, Library Consortia, West Bengal Rural Base College.

Introduction

A system has been proposed and developed to store the contents of Institute's Databank as an object of the Digital Library. A structured method has been proposed to organize all the data and a system has been developed which extracts meaningful information from the Data Bank. The proposed Digital Library system architecture, there are several resources that are added to the system. However, they can be divided into two categories, namely physical data sources and digital data sources. Physical data sources are comprised of sources in hard copies available in traditional library and manually catalogued. Digital data sources are comprised of e-books, editorials, published articles, conference proceedings, students' theses or some online blogs etc. First, a standard digital format is devised that describes the type of information (metadata), an institute wants to store about a resource. Metadata fields are selected carefully and then data about the resources is transformed in XML format. Obviously, this process was more challenging for the physical resources compared to digital resources. Digital libraries, or at least their digital collections, unfortunately also have brought their own problems and challenges in areas such as:

1. User authentication for access to collections,
2. Copyright**,**
3. Digital preservation ,
4. Equity of access ,
5. Interface design**,**
6. Interoperability between systems and software,
7. Information organization**,**
8. Inefficient or non-existent taxonomy practices (especially with historical material),
9. Training and development**,**
10. Quality of metadata,

Exorbitant cost of building/maintaining the terabytes of storage, servers, and redundancies necessary for a functional digital collection.

Digital Libraries Trends

Manual libraries are limited by storage space; digital libraries have the potential to store much more information, simply because digital information requires very little physical space to contain it. As such, the cost of maintaining a digital library can be much lower than that of a traditional library. There are a plethora of tools and resources online (many that are free) that can be used to create and enhance a digital learning environment. Listed below are resources and tools 21st century library user can use for digital learning.

1. RSS or Social Readers
2. Google+ Communities
3. YouTube Channels

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4. iTunes U
5. Cloud-based Word Processors (i.e. Google Drive)
6. File-sharing platforms (i.e. Drop box)
7. Ever note
8. Digital Pocket

Information literacy and information soft copy resource help consortia of library science field ,Social trends change with ICT background Case less programme change society human physical thought, students of rural under graduate level demand on ICT fundamental library for higher study. Dr.S.R.Ranganathan five law of library science be set-up library digitisation is fulfil recovery. Demand of education society and progress India feature Android mobile is use large numbers of college students, Govt.of West Bengal give money for Kanyashree to improve the life and the status of the girls by helping economically backward families with cash so that families do not arrange the marriage of their girl child before eighteen years because of economic problem. But rural community girls prefer Android mobile in her students life.Library Management software KOHA user friendly is install free of cost.

Method

Digital India Programme ,Cash less Programme ,Android Mobile Change communication traditionally rural College about 200 (Two Hundred) of villagers community Students study here , I Rejected of Urban College Like Kolkata, South-North 24-Pargana, District because modern civil people living there.

Rural District and Rural college Name list in west Bengal

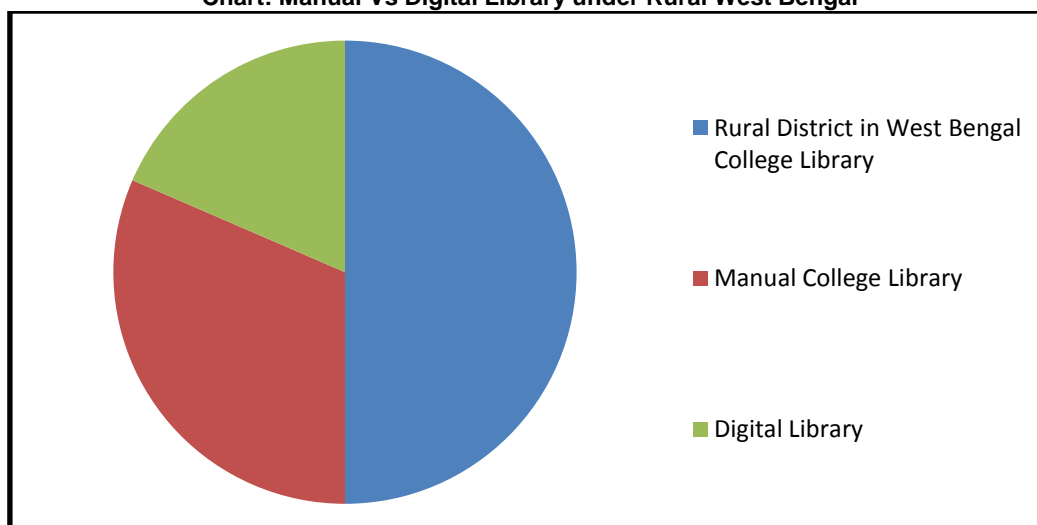| S.No.	Darjeeling	S.No.	Hooghly
1	Bijanbari College	11	Bijoy Narayan Mahavidyalaya, khanyan
2	Gyan Jyoti College	12	Nabagram Hiralal Paul College, konnagar
3	Kalipada Ghosh Tarai Mahavidyalaya	13	Bidhan Chandra College, Rishra
4	Mirik College	14	Netaji Mahavidyalaya, Arambagh
5	Sonada Degree College	15	Arambagh Girls´ College, Arambagh
6	Southfield College, Darjeeling		**Howrah**
7	Surya Sen Mahavidyalaya	1	Ramakrishna Mission Vidyamandira, Belur Math
	Jalpaiguri	2	Bagnan Teachers Training College Bagnan, Howrah
1	Ananda Chandra College of Commerce	3	Bijoy Krishna Girls' College, Howrah, West Bengal
2	Nani Bhattacharya Smarak Mahavidyalaya	4	Dinabandhu Institution, Howrah, West Bengal
3	North Bengal St. Xavier's College	5	Narasinha Dutt College, Howrah, West Bengal
4	P.D. Women's College	6	Lalbaba College, Howrah, West Bengal
5	Parimal Mitra Smriti Mahavidyalaya	7	Azad Hind Fauj Smriti College, Domjur
6	Sukanta Mahavidyalaya	8	Sovarani Memorial College, Jagatballavpur
	Cooch Behar	9	Ramsaday College, Amta
1	Bakshirhat Mahavidyalaya		**Birbhum**
2	Baneswar Sarathibala Mahavidyalaya	1	Birbhum Mahavidyalaya,
3	Dinhata College	2	Suri Vidyasagar College,
4	Government College of Physical Education for Women,	3	Sambhunath College,
5	Madhusudan Hore Mahavidyalaya, Nishigang	4	Krishna Chandra College
6	Mathabhanga College	5	Hiralal Bhakat College,
7	Mekhliganj college	6	Kabi Nazrul College,
8	Netaji Subhas Mahavidyalaya	7	Sofia Girls College,
9	Sitalkuchi College	8	Asleha Girl's College,
10	Thakur Panchanan Mahila Mahavidyalaya	9	Gurukul Teachers Training College,
11	Tufanganj Mahavidyalaya	10	Helal B.ed College, Math Kolitha,
12	Ghoksadanga Birendranath Mahavidyalaya	11	Gitanjali College of Education,
13	Bakshirhat Mahavidyalaya		**Bankura**
14	Dewanhat Mahavidyalaya	1	Jamini Roy College,
	Dakshin Dinajpur	2	Ramananda College, Bishnupur,
1	Gangarampur College	3	Panchmura Mahavidyalaya, Panchmura
2	Gangarampur Government Polytechnic	4	Pandit Raghunath Murmu Smriti Mahavidyalaya,
3	Gangarampur B.Ed College	5	Indas Mahavidyalaya, Indas,
4	Buniadpur Mahavidyalaya		**Purulia**
5	Dewan Abdul Goni College	1	Purulia Government Engineering College
6	Jamini Majumdar Memorial College	2	J. K. College
7	Cluny Women's College	3	Raghunathpur College
8	Rockvale Management College	4	Manbhum Mahavidyalaya
9	Government General Degree College, Gorubathan		**Paschim Bardhaman**
10	Government General Degree College, Pedong	1	Banwarilal Bhalotia College,

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	Alipurduar	2	Bidhan Chandra College,
1	Birpara College	3	Triveni Devi Bhalotia College,
2	Sahid Kshudiram Mahavidyalaya	4	Kanyapur Polytechnic,
3	Vivekananda College, Alipurduar	5	AYAN ARNAB SIKSHAN SANSTHA AJODHYA BONKATI,
4	Lilabati Mahavidyalaya	6	Deshbandhu Mahavidyalaya,
5	Pijushkanti Mukherjee Mahavidyalaya	7	NSHM Knowledge Campus,
6	Samuktala Sidhu Kanhu College	8	Durgapur Government College
7	Alipurduar Mahila Mahavidyalaya	9	Durgapur Women's College
8	Nani Bhattacharya Smarak Mahavidyalaya		**Purba Bardhaman**
	Uttar Dinajpur	1	Vivekananda Mahavidyalaya,
1	Dr. Meghnath Saha College	2	M.U.C women college
2	Raiganj Surendranath Mahavidyalaya	3	Burdwan Medical College,
3	Shree Agrasen Mahavidyalaya, Dalkhola	4	University Institute of Technology,
4	Durgapur Womens College	5	Burdwan Institute Management and Computer Science
	Malda	6	Burdwan Institute of medical and life sciences
1	Chanchal College	7	Bardhaman Raj College
2	Ghani Khan Choudhury Institute of Engineering & Technology	8	AMEX an Institute of Professional Studies,
3	Gazole Mahavidyalaya	9	M.B.C.Institute of Engineering and Technology,
4	Gour Mahavidyalaya, Maldah	10	Syamsundar College,
5	Govt. Teachers' Training College, Malda	11	Dr. Bhupendra Nath Dutta Smriti Mahavidyalaya,
6	Harishchandrapur College	12	Gushkara Mahavidyalaya,
7	Kaliachak College	13	Cyber Research & Training Institute,
8	Manikchak College	14	St. Xavier's College,
9	Pakuahat Degree College	15	Shyamsundar College
10	Samsi College	16	Dr. Gour Mohan Roy College,
11	South Malda College	17	Galsi Mahavidyalaya,
	Murshidabad	18	Sir Rashbehari Ghosh Mahavidyalaya,
1	Krishnath College	19	Achaya Sukumar Sen Mahavidyalaya,
2	Berhampore Girls' College	20	Khandra College, kandra
3	Muzaffar Ahmed Mahavidyalaya,	21	Kalna College, Kalna
4	Sripat Singh College, Jiaganj		**Pashim Medinipur**
5	Rani Dhanya Kumari College,	1	Belda College,
6	Nagar College	2	Ghatal Rabindra Satabarsiki Mahavidyalaya,
7	Raja Birendra Chandra College	3	Raja Narendra Lal Khan Women's College,
8	Sagardighi Kamada Kinkar Smriti Mahavidyalaya	4	Sukumar Sengupta Mahavidyalaya, Keshpur,
9	Raja Birendra Chandra College of Law	5	Narajole Raj College, Narajole,
10	Hazi A. K. Khan College, Hariharpara,	6	Garhbeta College, Garhbeta College,
	Nadia	7	Gourav Guin Memorial College,
1	Asannagar Madan Mohan Tarkalankar College	8	Debra Thana Sahid Kshudiram Smriti Mahavidyalaya,
2	Chakdaha College	9	Vivekananda Satavarshiki Mahavidyalaya,
3	Chapra Bangaljhi Mahavidyalaya	10	Santal Bidroha Sardha Satabarsiki Mahavidyalaya,
4	Dr. B.R. Ambedkar College	11	Chandrakona Vidyasagar Mahavidyalaya,
5	Dwijendralal College	12	Institute of Science & Technology,
6	Haringhata Mahavidyalaya	13	Pingla Thana Mahavidyalaya,
7	Karimpur Pannadevi College	14	Hijli College
8	Krishnagar Government College		**Jhargram**
9	Krishnagar Women's College	1	Sevayatan Sikshan Mahavidyalaya,
10	Nabadwip Vidyasagar College	2	Government General Degree College,
11	Nakashipara Government College	3	Jhargram Raj College,
12	Plassey College	4	Keshiary Government College
13	Pritilata Waddedar Mahavidyalaya	5	Lalgarh Government College
14	Ranaghat College	6	Nayagram Pandit Raghunath Murmu Government College
15	Santipur College	7	Sankrail Anil Biswas Smriti Mahavidyalaya
16	Snehangshu Kanta Acharya Institute Of Law	8	Seva Bharati Mahavidyalaya
17	Srikrishna College	9	Silda Chandra Sekhar College
18	Sudhiranjan Lahiri Mahavidyalaya	10	Subarnarekha Mahavidyalaya

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19	Tagore School of Rural Development & Agriculture	11	Vivekananda Satavarshiki Mahavidyalaya
20	Tehatta Government College		**Purba Medinipur**
	Hooghly	1	Sitananda College
1	Sri Ramkrishna Sarada Vidyamahapitha	2	Tamralipta Mahavidyalaya,
2	Raja Peary Mohan College	3	Panskura Banamali College,
3	Tarakeswar Degree College, Hooghly	4	Prabhat Kumar College,
4	Rabindra Mahavidyalaya, champadanga,Hooghly.	5	Mahisadal Raj College,
5	Hooghly Engineering and Technology College	6	Mahishadal Girls College
6	Hooghly Mohsin College	7	Bajkul Milani Mahavidyalaya,
7	Hooghly Women's College	8	Mugberia Gangadhar Mahavidyalaya,
8	Serampore College, Serampore,	9	Egra Sarada Shashi Bhusan College,
9	Chandernagore Government College, Chandannagore	10	Ramnagar College
10	Mahitosh Nandy Mahavidyalaya, Jangipara	11	Haldia Institute of Technology,

Collection Data by physically and over mobile phone (From,January,2019 to February,2019) , at a glance I find a report among 200 rural college library :

S. No.	Name of the Rural District in West Bengal	Total Library	Manual	Digital
1	Darjeeling	7	3	4
2	Jalpaiguri	6	2	4
3	Cooch Behar	14	10	4
4	Dakshin Dinajpur	10	5	5
5	Alipurduar	8	4	4
6	Uttar Dinajpur	4	4	0
7	Malda	11	8	3
8	Murshidabad	10	9	1
9	Nadia	20	9	11
10	Hooghly	15	7	8
11	Howrah	9	4	5
12	Birbhum	11	8	3
13	Bankura	5	2	3
14	Purulia	4	3	1
15	Paschim Bardhaman	9	3	6
16	Purba Bardhaman	21	15	6
17	Pashim Medinipur	14	12	2
18	Jhargram	11	10	1
19	Purba Medinipur	11	8	3
	Total Library	**200**	**124**	**74**

Chart: Manual Vs Digital Library under Rural West Bengal

Legend:
- Rural District in West Bengal College Library
- Manual College Library
- Digital Library

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Aim of the Study

College library system exists to serve the information needs of its academic community and supports the teaching and research mission of the College. College libraries have following mission: Acquiring, storing, processing and distributing the information, Support the teaching & research program and Serve the information needs of students, teachers and staffs to work for maximum satisfaction of users with library Digitization.

Analysis

College of west Bengal rural many problem for processing Manual form to Digital library ,Government Financial supporting , college financial crises , College Governing Body interest must be depend digitization library, But Digitization overflow recover situation and mentality .

Future Research

This study should be replicated explore students' attitudes toward the use of digital libraries in higher education at other universities and investigate factors that might prevent the effective implementation of the use of digital libraries from their perspective. This study should be conducted to include other students' statuses such as graduate students to explore if there are differences between undergraduate and graduate students in their attitudes toward the use of digital libraries. This study should be replicated to include a vast number of students to obtain clear perceptions about their attitudes toward the use of digital libraries. It is suggested that future studies should be conducted on the qualitative pros and cons of students' attitudes toward the use of digital libraries in higher education This study should be replicated to explore faculty members' attitudes and perceptions toward adopting digital libraries in higher education.

Conclusion

The Digital technologies requires higher-order cognitive, socio-emotional, and technical skills that help respond to fast-changing technologies and their adoption at scale. As per 2016 'World Development Report', this multiplicity of skills has always been important, but it is now essential. Rural West Bengal College learners are using, accessing, capturing videos lectures, digital notes through electronic gadgets and researchers, teachers uploading their article, videos, class lectures through ICT tools and techniques. Similarly, educational institutions also adopting the ICT tools and techniques for better teaching, administration and management in the campus. The paper highlights the role and importance and use of ICT Application by learner, teacher, and educational administrator in teaching, learning, administration and management of educational institutions. Modernization implication under college library improvement on long time process Because College Governing Body, Principal, Library Committee, Librarian etc. Involve for digitization.

References

1. Witten, Ian H.; Bainbridge, David Nichols (2009). How to Build a Digital Library (2nd ed.). Morgan Kaufman. ISBN 9780080890395.

2. Lanagan, James; Smeaton, Alan F. (September 2012). "Video digital libraries: contributive and decentralized". International Journal on Digital Libraries. 12 (4): 159–178. doi:10.1007/s00799-012-0078-z.

3. Bush, Vannevar (July 1945). "As We May Think" (PDF). The Atlantic Monthly: 101–108. Archived from the original (PDF) on 21 April 2018. Retrieved 30 April 2018.

4. Bourne, Charles P.; Hahn, Trudi Bellardo (2003). A History of Online Information Services, 1963–1976. MIT Press. pp. 169–170. ISBN 9780262261753. Retrieved 30 April 2018. 1696 Milestone - DIALOG, with the ERIC database, provided the first instance of extensive availability of abstracts online for search output.

5. Wiederhold, Gio (1993). "Intelligent integration of information". ACM Sigmod Record. 22 (2): 434–437. doi:10.1145/170036.170118.

6. Besser, Howard (2004). "The Past, Present, and Future of Digital Libraries". In Schreibman, Susan; Siemens, Ray; Unsworth, John. A Companion to Digital Humanities. Blackwell Publishing Ltd. pp. 557–575. doi:10.1002/9780470999875.ch36. ISBN 97 81405103213. Archived from the original on 10 August 2017. Retrieved 30 April 2018.

7. Candela, Leonardo; Castelli, Donatella; Pagano, Pasquale; Thanos, Constantino; Ioannidis, Yannis; Koutrika, Georgia; Ross, Seamus; Schek, Hans-Jörg; Schuldt, Heiko (2007). "Setting the Foundations of Digital Libraries". D-Lib Magazine. 13 (3/4). ISSN 1082-9873. Archived from the original on 16 January 2018. Retrieved 1 May2018.

8. L. Candela et al.: The DELOS Digital Library Reference Model - Foundations for Digital Libraries. Version 0.98, February 2008 (PDF Archived 2008-08-28 at the Wayback Machine)

9. Gonçalves, Marcos André; Fox, Edward A.; Watson, Layne T.; Kipp, Neill A. (2004). "Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries". ACM Transactions on Information Systems (TOIS). 22 (2): 270–312. doi:10.1145/984321.984325.

10. Isah, Abdulmumin; Serema, Batlang Comma; Mutshewa, Athulang; Kenosi, Lekoko (2013). "Digital Libraries: Analysis of Delos Reference Model and 5S Theory". Journal of Information Science Theory and Practice. 1 (4): 47. doi:10.1633/JISTaP.2013.1.4.3.

11. Fox, Edward A. (1999). "The Digital Libraries Initiative: Update and Discussion". Bulletin of the American Society for Information Science. 26 (1). ISSN 2373-9223. Archived from the original on 3 April 2018. Retrieved 30 April 2018.

12. "digital libraries, electronic libraries and virtual libraries". www2.hawaii.edu. Archived from the original on 2016-03-07. Retrieved 2016-01-18.

Shrinkhla Ek Shodhparak Vaicharik Patrika

13. *Yi, Esther, Inside the Quest to Put the World's Libraries Online Archived 2016-11-19 at the Wayback Machine, The Atlantic, July 26, 2012.*

14. *Castagné, Michel (2013). "Institutional repository software comparison: DSpace, EPrints, Digital Commons, Islandora and Hydra". The University of British Columbia. doi:10.14288/1.0075768. Retrieved 2016-04-25.*

15. *Pitti, D. and Duff, W. M. (2001). Introduction. In Pitti, D. and Duff, W. M., editors, Encoded Archival Description on the Internet, pages 1–6. The Haworth Press, Inc.*

16. *N. Ferro and G. Silvello. NESTOR: A Formal Model for Digital Archives. Information Processing & Management (IP&M), 49(6):1206-1240, 2013.*

17. *European Commission steps up efforts to put Europe's memory Archived 2007-10-16 at the Wayback Machine on the Web via a "European Digital Library" Europa press release, 2 March 2006*