

EDUCATION 2.0: PROMOTING TECHNOLOGICAL KNOWLEDGE DELIVERY

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ABSTRACT

Web 2.0 is one of the important name in the field of Information Science and Technology and Computing. In Communication Science too, it is an important and most valuable name. Education 2.0 is actually Child of Web 2.0. The application and integration of Education Science and Web 2.0 is called Education 2.0. However, apart from Education 2.0 it is also known as Learning 2.0 and Teaching 2.0. The dimension of Web 2.0 based Social Networking to become the professional Networking of emergence. It is promoting knowledge transfer and delivery among the people. Who are deployed in education and planning sector. Paper on Education 2.0 is still very much limited; thus this paper discusses overall aspects of Education 2.0, briefly; including need, role, characteristics, way of learning and so on.

Keywords: Education 2.0, Promoting Technologies, Knowledge Delivery, Education Technology, Learning Community, Virtualization, Web 2.0, Social Networking, Communication, Knowledge Transfer

INTRODUCTION

Web 2.0 is an important platform of communication; here information, audio, video, contents are possible to disseminate with the help of dedicated platform called Social Networking site. This is also called as wikis or blogs; people can communicate each other with this cost effective tool and weapon. It is most instant and popular among the common people, Businessman, Professionals, Students, Researcher, Entrepreneurs, and so on [04, 05, 08]. The interaction of Web 2.0 and Education brings Education 2.0 sites. It is promoting general knowledge delivery, online and e-learning systems, promoting healthy value added distance and correspondence education and so on. Educationalist, Student, Professionals and academician, academic director and chiefs, Researcher are the main stakeholder of Education 2.0.

OBJECTIVE

The main aim and objective of this paper is includes, but not limited to as follows:-

- To learn basic about Web 2.0 and its basic features;
- To learn about the importance and role of Web 2.0 briefly;

- To know about the potentials of Education 2.0 and similar Web 2.0 domain;
- To find out the latest issues and challenges in relation to Education 2.0;
- To learn about Technological background of Education 2.0 and similar platform.

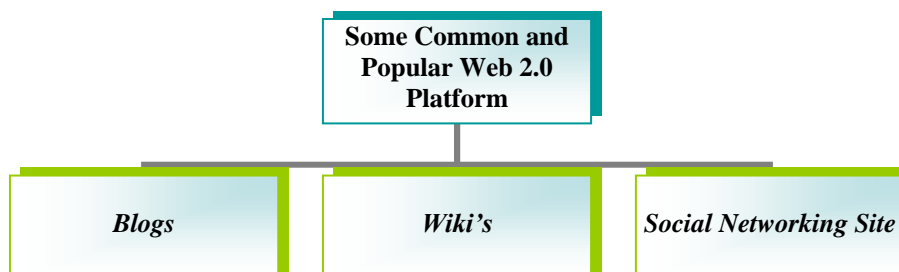


Fig: 1. Types of Web 2.0 Sites

Education 2.0: What is it?

Communication with the help of Web 2.0 sites such as Blogs, Wikis and other social networking sites among the educationalist and other academic director and chiefs, writer, content developer and so on for the educational purposes is called Education 2.0. Though, Education 2.0 may also use some other people [occasionally] such as politician, social workers, medical professionals; but they may use Education 2.0 platform for knowledge collection and dissemination of their respective field; like medical professionals may share their experience or knowledge of any medical education or practices or treatment related aspects[04, 08, 09]. However, Universities, Colleges, Schools and their stakeholders are community treated as main user of Education 2.0.

Background of Education 2.0

Education 2.0 is actually lies on web 2.0 sites, blogs, Social Networking Sites; Wiki's are the main tool which helps to build Education 2.0 sites. Education 2.0 may also called as Knowledge 2.0, Teaching 2.0, and Learning 2.0. However, among these nomenclatures, the nomenclature of Knowledge 2.0 is big. Such Web 2.0 are basically helps in proper communication between and among the user online at any time any where with the help of Internet backed site. It allows content, information, audio, video delivery; thus for educational matter also, this platform is also useful and create new domain called Education 2.0.

Technological Integration in Social Networking

Social Networking sites are purely based on so many tools and technologies such as Web Technology, Multimedia Technology, and Networking Technology and so on. Among these technologies, Web Technologies are most important to build Social Networking sites and Web 2.0 platform such as Education 2.0. Preparation needs some web languages such as HTML, DHTML, XML and some scripting language for client server back up and scripting languages such as VB Script, Java Script may be uses in this purpose.

Apart from language and scripting language Education 2.0 needs some more Web Technology and the last thing is Web Browser. And for web browser any one may be use like- Microsoft Internet Explorer, Netscape navigator, Google Chrome and so on[08, 12].

Building Interactiveness is very much important for any Web 2.0 and Education 2.0 has no exception thus, better utility and communication use of HCI and Usability Engineering are very much important. Apart from these, Multimedia Technology is needed some software such as- Page Maker, Photoshop, A/V tools and 3D is most important.

Use of Database is another important tool for Education 2.0 sites; thus here common MS-Access to MS SQL are important depending upon need and requirement. Use of Flex, JSON, RSS feed are also need to use.

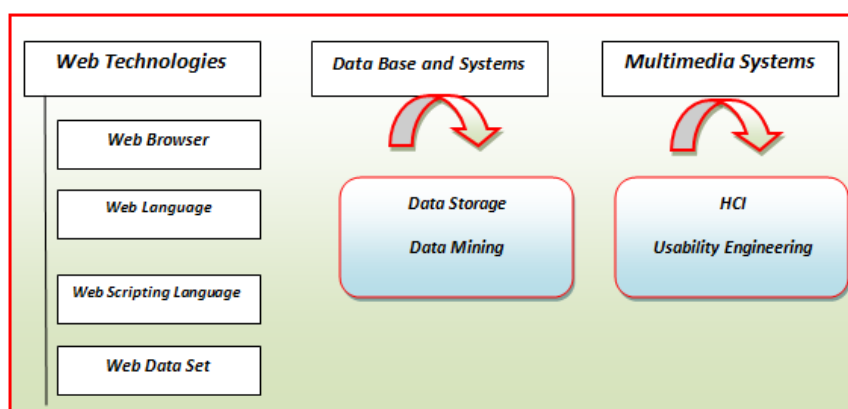


Fig: 2.Technological Requirement in Education 2.0 Development

Education 2.0: Empowering Education Systems

- Education 2.0 is helpful for several organization and institution deals with education such as offering Degree, Training Programme, Workshop, Conference and seminar and so on;
- It promote University Education and similar Education platform for extra curricular activities;
- It helps to communicate student to student, student to teacher, teacher to teacher, teacher to academic student to academics and so on and they may share information, views, content, article and so on depending upon need;
- It helps to delivery of course-work of any educational programmes not only as information or textual but also in Audio/ Video mode[09, 13];
- It promote Distance Education, similar education systems such as private education, correspondence education and so on by delivery of interaction, course work, information and so on;
- It helps in better E-Learning and Online Education. Apart from computer Education 2.0 is also mobile and other device enable and thus any one can get such benefits and from any where;

- It saves educational informatics installation's conventional money; as it only links internet connection and communication rather than A/V tools, V-SAT and others.

Issues and Challenges

Education 2.0 needs so many tools, and technologies; thus it needs so many machinery and equipments for communication and sharing;

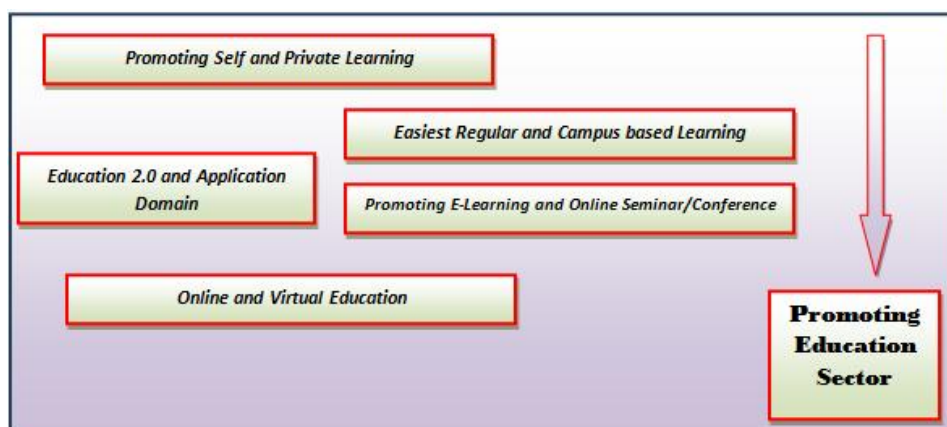


Fig: 3. Excellence of Education Sector through Education 2.0

- Education 2.0 requires so many content development principle; with out these the ultimate aim of Education 2.0 may be failed;
- Education 2.0 needs awareness regarding its benefits but still people are not aware about such sites, blogs and wikis;
- Content and information are always changing, once in Education 2.0 made need time to time up gradation and modification[04, 06, 18];
- Many educationalist, and teachers are old aged and thus they are not ICT and Network Literate, hence ICT and Network Literacy and their development are big agenda;
- Interactive aspects are important in content generation and building; so during preparation of that, contents needs HCI or Human Computer Interaction and Usability Engineering enriched facets;
- Though, Education 2.0 not requires any kind of heavy tools and machineries but it needs continuous broadband services and thus in developing country's institute still availability of Such tools is an big issue;
- Proper and adequate financial assistance are also very much important issue to take care; to build Education 2.0 sites, their maintenance and management and so on[19].

SUGGESTION

- Governmental Awareness, project regarding Education 2.0 initiation is very much important in the days of Information Explosion;

- Proper Funding, initiative, content development are very much essential for sophisticated Education 2.0 site development;
- Proper Usability and HCI integration is very much important in Education 2.0 sites for better Usability and interaction;
- In Educational mode; such as Digital Learning, E-Learning, Correspondence courses needs utilization of Education 2.0 sites.

CONCLUSION

Education is very much important for all round development of the society; there are so many tools and techniques are using for better and improved Education Systems [12]. A full-fledged domain called Education Technology already developed and gained popularity among the student, academicians, researcher and educationalist; use of V-SAT, Recorded Videos are most important tool since late of 1990's. But during 2000's, the popularity of Web 2.0 bring so many dimension out of which Education 2.0 is important one, which is effective and money saving tools and easy to use in general, conventional teaching learning as well as Online Education and continuous education programme

REFERENCES

1. Cohen, E. B. (2004). Applying the Informing Science Framework to Higher Education: Knowledge Development, Management, and Dissemination. Konferencja Pozyskiwanie wiedzy i zarządzanie wiedzą (Proceedings of the Knowledge Acquisition and Management Conference) May 13-15, 2004 Kule, Poland.
2. Cohen, Eli B. and Nycz Malgorzata (2006). Learning Objects and E-Learning: an Informing Science Perspective. Interdisciplinary Journal of Knowledge and Learning Objects Volume 2, 2006
3. Martin, S.B. (1998). Information technology, employment, and the information sector: Trends in information employment 1970-1995. Journal of the American Society for Information Science, 49(12), 1053-1069.
4. Michael Buckland and Ziming liu (1995).History of information science. Annual Review of Information Science and Technology vol. 30: 385-416.
5. Paul, Prantosh Kumar, R Bhatnagar, Sarmistha Chowdhury "Information Infrastructure: Emphasizing its role, challenges and issues in Higher Secondary School In Indian Context" In ICSSR Proceedings of National Conference on Universalization of Secondary Education: Prospects and Challenges, Dec, 2012, ASE, Amrita University, Mysore Campus, Page-450-457, ISBN-978-81-924422-1-1
6. Paul, Prantosh Kumar, Dipak Chatterjee and Bhaskar Karn 'Information Management: emphasizing traditional and technology focused approach – An Overview' in **IEEE/CSI/AICTE** co sponsored Proceedings National Conference on Paradigm shift in Education Technology & Content Management [ETOM-12]DIT, Techno India, TI University, Kolkata, 02-03/03/2012 Page 58-62. ISBN-978-81-9230347-5, SPS Education Publication, Kolkata, India
7. Prantosh Kr. Paul, K V Sridevi, Minakshi Ghosh, Ashwina Lama "Education Informatics: Powered By Cloud Computing - the sophisticated Educational Information

- Infrastructure Building” International Journal of Computer Mathematical Sciences and Applications,ISSN-0973-6786, Page-95-102, Vol. 6, No. 3-4, July-Dec. 2012, SP,New Delhi, EIC-G Ganesan, A N University, AP, India
8. Prantosh Kr. Paul, H A Mangla, B B Sarangi, Ramanna Chetri, K S Shivraj Roshan Rai “*Education Technology: Emphasizing EduNxt Knowledge Transformation Systems of Sikkim Manipal University (SMU), Gangtok, Sikkim, India*” International Journal of Embedded Systems and Computer Engineering, July-Dec. 2012, Page-109-113, Research Science Press, India.ISSN-0975-4482, Chief Editor-S Ganesan, Oakland University, USA
 9. Paul, Prantosh Kumar,Mrinal Kanti Ghose, Dipak Chaterjee ‘Education Technology: its benefits and utilization with special reference to EduNxt, Knowledge Delivery Model of Sikkim Manipal University-A Study’ in **IEEE/CSI/AICTE** co sponsored Proceedings National Conference on Paradigm shift in Education Technology & Content Management [ETOM-12]DIT,Techno India, TI University, Kolkata, 02-03/03/2012 Page 148-153 .ISBN-978-81-9230347-5, SPS Education Publication, Kolkata,India
 10. Prantosh Kr. Paul, K V Sridevi, Minakshi Ghosh, Ashwina Lama “Education Technology: The Transparent Knowledge Delivery through QPN and Cloud Computing” IJSD-An International Journal, Vol. 12, No. 2, December-2012, Page-455-462 , ISSN-0972-3692, SR, NewDelhi, EIC-Vijay Kumar S, Bangalore
 11. Prantosh Kr. Paul, K L Dangwal, Asok Kumar Garg “ Education Technology and Sophisticated Knowledge Delivery” Techno-Learn-International Journal of Education Technology, ND Publisher, New Delhi, Vol. 2, No. 2, Page-169-175 ISSN-2231-4105
 12. Prantosh Kr. Paul, K L Dangwal and Dipak Chaterjee, “Information Technology and Advance Computing and their interaction for healthy Education, Techning, and learning: The IKM Approach” Asian Journal of Natural and Applied Sciences,ISSN-2186-8468, Page- 70-77 V-1, No. 4, December-2012, Leena and Luna International, Oyama, Japan
 13. Paul, Prantosh Kumar, KL Dangwal “Web Data Mining: Contemporary and Future Trends: Emphasizing Educational Data Mining [EDM]” in EduQuest-An International Journal, ISSN- 0976-7258, July-Dec, 2012, New Delhi Publisher, New Delhi.
 14. Prantosh Kumar Paul, Dipak Chaterjee, Ashok Kumar “E Learning: New Age Knowledge Model Delivery through Advance Information Technology and Cloud Computing: An Overview” BRICS International Journal of Educational Research, Vol. 3 No. 1, ISSN-2231-5829, Page-22-25, MM University, Ambala, Haryana, India [Indexed in Index Copernicus, and others]
 15. Paul, Prantosh Kumar, KL Dangwal, M Ghosh “Information Systems & Networks (ISN): Increasing Tools and Technological Application with Special Reference to Role as an Educational Tools” IJCSES, Vol.7 No.2 April 2013, pp.99-103
 16. Reichman, F. (1961). Notched Cards. In R. Shaw (Ed.), The state of the library art04(01), pp. 11–55). New Brunswick, NJ: Rutgers, The State University, Graduate School of Library Service.
 17. Saracevic, T. (1996). Relevance reconsidered. Information science: Integration in perspectives. In Proceedings of the Second Conference on Conceptions of Library and

- Information Science (pp. 201–218), Copenhagen, Denmark: Royal School of Library and Information Science.
18. Saracevic, T. (1975). Relevance: A review of and a framework for the thinking on the notion in information science. *Journal of the American Society of Information Science*, 26(6), 321–343.
 19. Saracevic, T. (1979a). An essay on the past and future of information science education. I. Historical overview. *Information Processing & Management*, 15(1), 1–15.
 20. Saracevic, T. (1979b). An essay on the past and future of information science education. II. Unresolved problems of ‘extemalities’ of education *Information Processing & Management*, 15(4), 291–301.
 21. Vakkari, S.P. (1996). Library and information science: Content and scope. In J. Olaisen, E. Munch-Petersen, & P. Wilson (Eds.), *Information science: From development of the discipline to social interaction*. Oslo, Norway: Scandinavian University Press.
 22. Vickery, B.C., & Vickery, A. (1987). *Information science in theory and practice*. London: Butterworths.
 23. Wersig, G., & Neveling, U. (1975). The phenomena of interest to information science. *Information Scientist*, 9, 127–140.
 24. White, H.D., & McCain, K.W. (1997). Visualization of literatures. *Annual Review of Information Science and Technology*, 32, 99–168.
 25. www.en.wikipedia.org
 26. www.infosci.cornell.edu/
 27. www.ischools.org
 28. <http://www.libsci.sc.edu/bob/istchron/iscnet/ischron.html>