

## **INFORMATION PROFESSIONAL AND THEIR NEED AS USABILITY AND HCI BASED WEBSITE DEVELOPER**

**Prantosh Kumar Paul**

FBAS, Bengal Engineering & Science University, Howrah, West Bengal, India

Email: prantoshkpaul@gmail.com

### **ABSTRACT**

*Information Professionals are one of the important professionals engaged in the information field. Information professionals are the stakeholder of several information related job which including most traditional Librarianship, Information Officer, Cataloger, Classification Indexing expert, Documentation and so on. Information Professionals are primarily responsible for the information related job which including collection, selection, organization, processing, management and dissemination of information. Information Professionals for their information activities may use manual tools or computational tools. Information Professionals today uses so many Electronic weapon out of which website treated as important one. This paper is about Information Professionals and their need and role for sophisticated website development which should be easy and effective.*

**Keywords:** Information Professionals, Information Science, Website, Web Development, Web Technology, Web Engineering, Usability Engineering, User Interface, Design and Development, Information Systems

### **INTRODUCTION**

Information Science is one of the important domain which produces several Information Professionals. Out of them some are in the field of Computational Information Management and some are deals with Traditional Information Management tools and techniques [01,06]. Information Professionals are employed for complete Information Systems development and modernization Information Collection, Selection, Organization, Processing, Management, Dissemination are the main task of Information Professionals. Though today's Information Professionals are many ways technocratic and synonymously treated as computer Professionals. They are now-a-days able in several IT handling which includes Database Management, Networking Tools, Web Development and so on in respect of Information and Knowledge[02, 03, 08]. Information Professionals are also known as several nomenclatures. Information Professionals are deals with technique and other organizational Computing Management many ways [09].



**Fig. 1.** Depicted the main and fundamental responsibilities of Information Professionals

## **OBJECTIVE**

The main aim and objective of this study is includes:-

- To learn about Information Professionals and about their characteristics;
- To find out main relationship of web development and Information Professionals;
- To find out 5 main aim and objective of modern days Information Professionals;
- To find out main function and features in web development in Information Science;
- To learn basic about Information Foundation and its possibilities of integrating web builders;
- To learn about Information Architecture and its relationship with web development;

## **Information Professional: Basics**

Information Professionals are the reasons who are mainly deals with several information activities which including Information Processing and Management. Information Professionals are mainly responsible for the information collection, selection, organization, processing, management dissemination [02, 08, 12]. Information Professionals are dedicated to Information Transfer Cycle, Information channels and overall sophisticated Information Systems Development. Information Professionals are deals with several tools and techniques to do several information activities; these tools are Computer, Mobile, E-mail, Internet, Networks, Display and Multimedia Systems and so on.

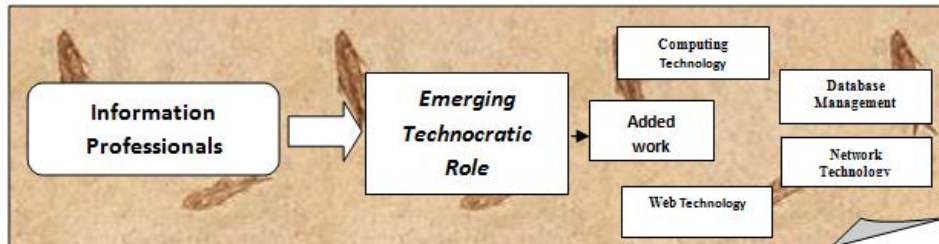
## **Websites and Information Professionals**

Website is one of the important field of computer and Information Science. Collection and Dissemination of Information is many way's possible with website and similar type of tools. Building or creating institutional websites is very much essential for today's Information Professionals and Information Foundation. Providing online Information Service, SDI, CAS, Indexing and Abstracting service is purely possible with the website [06, 07]. Connection with similar and longer Information foundation to the concerned Information Foundation is many way's possible with the website and similar tools; thus Information Professionals has great importance in web development and design.

## **Web Developer: A healthy and Easy way for Information Professionals**

Thus, in several places it is possible to use website and web technology in the field of Information Science and Information Professionals. But to prepare or design Website an Information Professional has to lead several things which includes HTML, DHTML, XML,

CSS, PHP, MY SQL, Multimedia packages; such as CorelDraw, page maker, photoshop and so on.



**Fig. 2.** Depicted: ‘Technology Management and Information solutions through the Technology’ of Today Information Professionals

An Information Professional is needs to learn all these techniques mentioned above or particularly some of these tools or techniques [08, 13]. Thus preparation of a healthy, sophisticated Website building needs several tools and language to learn; including programming languages and multimedia packages.

Thus, here it is possible to use Website builder tools. Which is allows the construction of website without manual code or editing. This is actually fall under two categories which includes offline and online. Library and similar foundation are as because a non profit making organization thus, they are able to build Website with the help of Website builders [14]. Online websites builders typically needs to sign up with the web hosting company. Online property tools provided by web hosting companies typically intended for uses to build to build their private site; and software which run on a computer, creating pages offline and which can then publish these pages on any host.

### **Opportunities**

Web builders provide opportunities to the information professionals; which includes:-

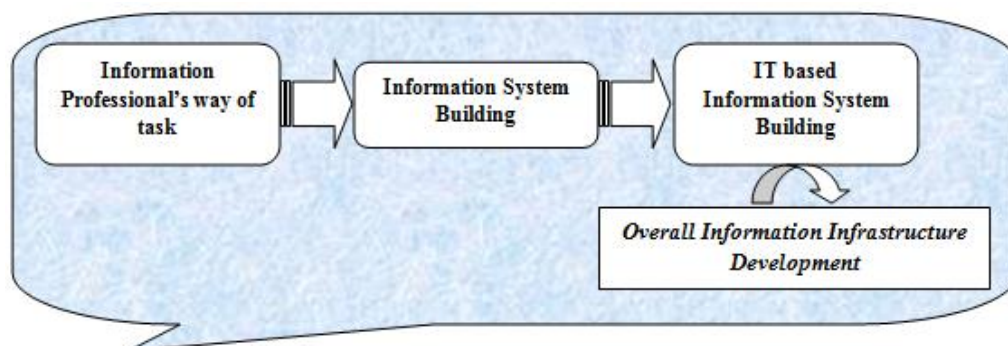
- In Website Builder, Information Professionals no need to learn the Website Development Language such as HTML, DHTML, XML, PHP and others;
- It is easy to develop and usually requires very minimum time;
- Some templates and design style manual are already provide by such web hosting company; thus it is requires to learn less Usability Engineering methods/ tools;
- It needs less financial support to design Websites;
- Modern offline web builders allow direct editing source code and CSS style.

### **Challenges and Problems**

However Website design or even with web developer also, several challenges and problems are striking among the Information Professionals; some of the challenges and problems are includes:-

- In small Information Foundation it is tough to build Website or even internet connectivity;

- Logically most of the online web developer sites are for non-profit making task; but many information professionals are today offer services on behalf of charges;
- Offline web builders many provide several services only by knowing HTML or CSS; but it requires money to buy;
- Though some open source Web Builders are available free of cost.



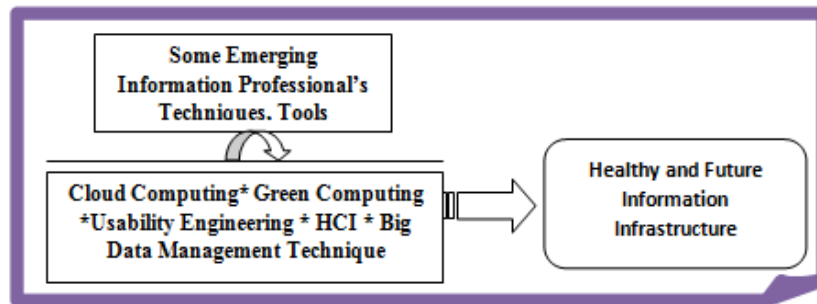
**Fig. 3.** Showing reason of Information Professional's engagement in MNC's and other organization than only traditional Information Foundation job

### **Web Development and Information Architecture**

Web Architecture and Web Development today purely depends on healthy and better designing. During Designing it is essential to keep the facilities of Usability Engineering [03, 13, 15]. It is better use interface clear, concise and usable, touch based to use healthy Information Architecture; which is the art of expression a model or concept of Information used in activities that requires explicit detail of complex systems. It is a structural design of shared environment, method of organizing and labeling Websites, internet and online documents, and way of bringing the principles of design and architecture to the digital landscape [16].

A healthy Information Architecture very much urgent for building a healthy, sophisticated website. Healthy Usability is an important issue for modern days' Interface Design thus; in there also, use of Information Architecture is essential [05, 15]. In the following cases/ places use of Information Architecture is essential which includes:-

- Websites of the concerned Information Foundation is essential to build with Information Architecture principles;
- Mobile based Information Services;
- OPAC and SDI Services;
- Indexing and Abstracting *[online services]* systems;
- Healthy interconnected Websites or Information Networks' website building and so on.



**Fig. 4.** Modern Computational tools and techniques in modern Information Management

### FINDINGS

- Information Professionals are today truly depends on several tools and technologies and out of which Websites is important one[12];
- Web builder software is gaining popularity among the common masses;
- Availability of technical manpower and skilled professionals in root level information professionals is tough enough[06, 12];
- Information Professionals are basically comes from the Library Science background; thus they are unable in many cases to develop healthy Websites.

### RECOMMENDATION

- It is better to initiate Web Development in the academic programme; from which Information Professionals are basically recruited;
- Web builder, particularly offline is important for small Information Centre;
- Use of Usability Engineering and Information Architecture is urgent to build healthy and sophisticated Websites.

### CONCLUSION

Information Professionals and their functions are changing rapidly. Today so many Information Professionals are using Web Technology for their organization as internet or intranet. Information Professionals are working for information collection, selection, organization and processing and dissemination; thus it is better to involve Websites to all these activities[08, 13]. Various academic programme and refreshers courses in this field; like Websites development, Websites Design and Web Engineering may solve the future problem may ways.

### REFERENCES

1. "DeveloperWorks Interviews: Tim Berners-Lee". 2006-07-28. <http://www.ibm.com/developerworks/podcast/dwi/cm-int082206txt.html>. Retrieved 2012-08-05.
2. "Berners-Lee on the read/write web". BBC News. 2005-08-09. <http://news.bbc.co.uk/2/hi/technology/4132752.stm>. Retrieved 2012-08-05.

3. DiNucci, Darcy (1999). "Fragmented Future" (pdf). *Print* **53** (4): 32. [http://darcy.com/fragmented\\_future.pdf](http://darcy.com/fragmented_future.pdf).
4. Idehen, Kingsley. 2003. RSS: INJAN (It's not just about news). Blog. Blog Data Space. August 21 OpenLinkSW.com
5. Idehen, Kingsley. 2003. Jeff Bezos Comments about Web Services. Blog. Blog Data Space. September 25. OpenLinkSW.com
6. Knorr, Eric. 2003. The year of Web services. CIO, December 15.
7. "John Robb's Weblog". Jrobb.mindplex.org. <http://jrobb.mindplex.org/2003/08/16.html>. Retrieved 2011-02-06.
8. O'Reilly, Tim, and John Battelle. 2004. Opening Welcome: State of the Internet Industry. In San Francisco, California, October 5.
9. Sourav Maitra, A C Mondal, 'Web Technology Enhancement: Accomplishments and future Research Direction in Proceedings of NaCCS-2012, ISBN-978-93-80813-18-9 Page-236-241
10. Rupose some, 'A survey on Web Data Mining and Future Directions in Proceedings of NaCCS-2012, ISBN-978-93-80813-18-9 Page-20-23
11. Waydande, H.S. and Medha V Joshi, "Web Design for Librarians in Science and Technology" in the Twenty First century in T Ashok Babu (Eds.) Vision of FLIS, ISBN-978-81-309-0816-8, Page-144-148.
12. Paul, Prantosh Kumar, B B Sarangi, "Information Science (IS): Emerging utilization of Computing, Technology and Management Gradients in the 21<sup>st</sup> Century". in National Conference on Emerging Trends in Computer Application & Management, Faculty of Computer Application and Management, AVIT (AICTE-NBA Accredited Engineering College) Dated-24-02-12, 25-02-12. Paper published.
13. Paul, Prantosh Kumar, Bibhuti Bhusan Sarangi and Dipak Chatterjee "Cloud Computing and its strategic and technical application in Information Networks in Indian Scenario in *IEEE* sponsored- National Conference on Information and Software Engineering, AVIT, VMU, 9-10 March. Page 146-149.
14. Paul, Prantosh Kumar, Bibhuti Bhusan Sarangi and Bhaskar Karn "Information Systems & Networks :Emphasizing issues and challenges of subject based ISN" in *IEEE* sponsored- National Conference on Information and Software Engineering, AVIT, VMU, 9-10 March. Page-154-158.
15. Paul, Prantosh Kumar, Bibhuti Bhusan Sarangi and Bhaskar Karn "Fuzzy Logic: emphasizing fuzzy based Information Retrieval and healthy Informatics practice" in National Conference of Mathematical Modeling and Simulation, Department of Mathematics, VMKV Engineering College (AICTE-NBA-VMU approved), 11<sup>th</sup> February, 2012, Salem, Tamil Nadu. Paper published
16. [www.en.wikipedia.org](http://www.en.wikipedia.org)