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Title: Application of Emerging Web Technologies for Research and Development in Higher Educational Institution: A Study

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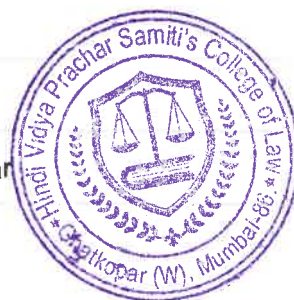
Keywords: Web technology
Research and Development
Library 2.0
Web 2.0

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Issue Date: Nov-2022

Publisher: INFLIBNET Centre, Gandhinagar

Series/Report no.: CALIBER-2022;02




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Abstract: With the commencement of the Covid-19 pandemic in 2020, social distancing rules and nationwide lockdowns have led to an inevitable increase in the use of digital technology, and this is becoming the need of the hour. People and organizations around the world adapted to new ways of working and living because they were supported by digital resources. Digitization options enabled companies and educational institutions to migrate to work from home and overcome seemingly impossible situations. The lockdown has allowed people to use the internet and internet-based services to communicate, interact and continue their job responsibilities from home. Whatever the situation may be, the role and support of web technologies is very crucial. We are all familiar with the journey of the web through Web 1.0, Web 2.0, Web 3.0 and so on. This study explores the web 2.0 services provided by libraries. The study also focused on the use of Web technologies as an innovation tool for research and development in Higher Education Institutions. Researchers have used primary as well as secondary data collection methods to complete the study. Researchers collected primary data using questionnaires and for secondary data we used library web pages, journals, articles and other e-materials.

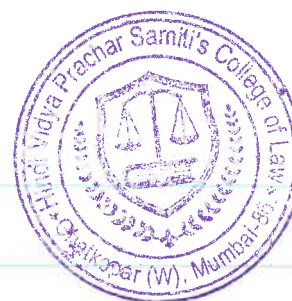
Description: 13th International CALIBER-2022, BHU, Varanasi, UP, 17-19 November 2022

URI: <http://ir.inflibnet.ac.in/handle/1944/2359> (<http://ir.inflibnet.ac.in/handle/1944/2359>)

ISBN: 9789381232101

Appears in Collections: CALIBER 2022: Varanasi, UP ([/ir/handle/1944/2357](http://ir.inflibnet.ac.in/handle/1944/2357))

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Application of Emerging Web Technologies for Research and Development in Higher Educational Institution: A Study

Neha Ramakant Naik and J Shivarama

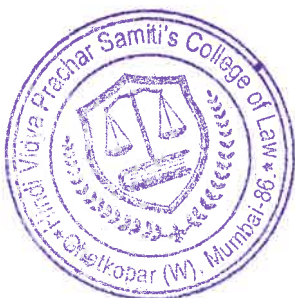
With the commencement of the Covid-19 pandemic in 2020, social distancing rules and nationwide lockdowns have led to an inevitable increase in the use of digital technology, and this is becoming the need of the hour. People and organizations around the world adapted to new ways of working and living because they were supported by digital resources. Digitization options enabled companies and educational institutions to migrate to work from home and overcome seemingly impossible situations. The lockdown has allowed people to use the internet and internet-based services to communicate, interact and continue their job responsibilities from home. Whatever the situation may be, the role and support of web technologies is very crucial. We are all familiar with the journey of the web through Web 1.0, Web 2.0, Web 3.0 and so on. This study explores the web 2.0 services provided by libraries. The study also focused on the use of Web technologies as an innovation tool for research and development in Higher Education Institutions. Researchers have used primary as well as secondary data collection methods to complete the study. Researchers collected primary data using questionnaires and for secondary data we used library web pages, journals, articles and other e-materials.

Introduction

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The COVID-19 widespread had constrained governments around the world to put their nations in full or halfway lockdown to contain the spread of the infection. In any case, these lockdowns came with extreme financial and social results, which has too displayed one-of-a-kind challenges within the instructive division and has constrained not fair understudies but moreover arrangement producers and benefit suppliers counting the custodians to adjust and embrace innovation as a reasonable and profitable choice to guarantee satisfaction of the instructive needs of the partners and in overcoming different obstacles in this widespread time. "India, on 30 January 2020, reported its first positive case of the novel coronavirus (COVID-19) from the state of Kerala with a student, who was studying in Wuhan University and had travelled to India" (Perappadan, B. S. 2020) and it had spread rapidly. In this context many impossible things have become possible with the addition of technology, offices have started from home, school and college classes have started to be held at home. The concept of work from home and online classes has emerged. The black board was replaced by resources such as laptops and mobiles. All the sectors were sustained and the economy of the country was affected but education was not disrupted like this sector with the help of Information and Communication Technology (ICT).

In the wake of the rapidly evolving situation of the Covid pandemic, the University Grants Commission (UGC), the apex body of India's higher education system, had launched an online system to monitor the



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academic progress of students. This situation challenged the work of scholarly libraries. Due to the suspension of personnel administration and the move towards physical collections in institutions' libraries, fewer students, staff and librarians have emerged looking for innovation as a way to manage challenging times. In fact, library professionals have demonstrated their expertise, compassion and flexibility during the lockdown to respond to the rapidly escalating situation. And in such a case a website is a basic and dynamic step to connect and serve customers. But innovation cannot do it alone. In this type of and urgent situation it is very important to prepare the part of library specialists especially the part that runs innovative institutions keeping in mind the offices and administrations they provide to their clients.

In the cutting-edge generation of facts explosion, all of us are strolling after facts, however they no longer recognise a way to gather facts and proportion facts one to at least one and one to many at a time. Web-based and Web-enabled services have generated tremendous energy today to refer to Web advancements for research and development. Delivering various goods to business end users is a unique challenge and opportunity. Computerized portfolios on the web and net have determined variables for professional inquiry and mechanical organization worldwide. Indeed, government administration and e-governance are using web media that are computationally evolving. Apart from those facts, ICT and its associated aids have modified the position of facts experts withinside the cutting-edge facts age. Furthermore, ICT has delivered awesome achievement withinside the shape of making social community websites for cease-to-cess alternate of facts. The part of research within the economic development of a nation could be a well-known reality. Inquire about alludes to the imaginative work attempted by clearly organizing a stock of information. An ace of instruction, he addresses instructive issues and settings in a logical and consistent way. India's research and development sector is dynamic with existing web advances and higher institution frameworks playing a vital part. This appears to be the way of advancement from a created country. Today we cannot imagine ourselves without this technology. Emotional, educational and financial growth was not allowed to stop, classes started to fill through Zoom, working from home i.e., office work from home with laptop PC, video conference, dissemination of knowledge through webinars became popular. The availability of the web made it possible to do things with patience in difficult situations. Web innovation refers to the various devices and strategies that are used in the preparation of communication between certain types of gadgets on the web. A web browser is used to access web pages. Content, information, pictures, animations and videos show on the web. Hyperlinked assets on the World Wide Web can be accessed using the program interfacing provided by a web browser.

2. Objectives

- ❖ To know about Web Technologies and how it is related to library.
- ❖ To know what Web 2.0 tools are used for research and development in higher educational institutions.
- ❖ To know the importance of using Web Technologies Tools for research and development.
- ❖ To analysis the usage of Web 2.0 tools in university libraries of Mumbai.



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