TO STUDY THE MAINTENANCE OF LIBRARY WEBSITES AND WEB-BASED LIBRARY INFORMATION SERVICES

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ABSTRACT

Networking with the libraries is not additionally discovered in appropriate conditions within the most of the libraries. Networking could be very useful to percentage the sources and perform all of the responsibilities the usage of the computer's facilities. Sufficient numbers of computer terminals with network and internet centers are vital to optimize the facts sources available inside the libraries, free internet assets, and through the club of any consortium. Pace of net need to very speedy as in keeping with requirement of use. Level of delight the various customers in the direction of the infrastructural centers isn't always discovered very fine. Hence, the notion is to enhance the infrastructure facilities or to decorate the provision of such centers within the libraries so one can motivate the library users to apply the library and better utilization sources and offerings may be ensured. It is also located that libraries face the problem of finances for handling the libraries and enforcing new ICT based systems and services. Therefore, it's far the responsibility of the libraries' authorities and government bodies to allocate the fund to make investments on ICT based infrastructure, machine and offerings. Involved library authorities must facilitate these libraries to co-operate each different for the development of ICT competences of the Library workforce inside the unique libraries of this place. Worried library government need to aware with the blessings of ICT and apprehend the importance of IT software in development of libraries. Library government should be devoted for growth and improvement of libraries with the help of ICT programs. The investigation's goals were taken into consideration when testing hypotheses and drawing conclusions. Frequency, percentage, means, standard deviation, chi-square, and ANOVA were among the statistical methods utilized. Significant values are acceptable if they are less than 0.05. The study's findings will help determine the steps that can be done to fully automate college libraries.

INTRODUCTION

Libraries are becoming more and more important cornerstones of a healthy society. They constantly provide forums for finding answers and suggestions to problems in study, learning, research, and innovation. Libraries also play a crucial role in maintaining and passing down cultural traditions from one generation to the next. The management college libraries must focus on various services, including traditional, electronic, and web-based ones, as well as facilities and existing needs that merit more attention in order to satisfy the needs and requirements of the various user communities, as well as to address issues and support users in a variety of interest-related fields for better use. The goal of this study is to identify the issues experienced in creating better library goods and products in Bangalore city, as well as the awareness and use of library services provided by particular Management Colleges Libraries.

As the current period relies heavily on internet-based online resources, e-Resources have evolved into one of the most important sources of information for teaching, learning, and research activities. Although the circumstances are as they are, the bulk of library customers lack the knowledge and abilities necessary to utilize the electronic resources and services. Therefore, it is crucial to assess how library customers are using e-resources and services, as well as any problems or difficulties they may be having, before beginning any awareness campaigns or orientations. Libraries should play a significant role in the consumption element by launching well-planned user education and awareness programs, building out the necessary infrastructure, and signing up for more e-resources.

Delivering high-quality, user-centric services and facilities is a college library's primary task in the current virtual world. Information is the process of becoming informed; the success of the process depends on sharing the right information to the right person at the right time, as very much stressed, the father of Indian librarianship. The main visionaries of every higher academic library are to provide better, relevant, and up-to-date information products on concern of growing information needs and requirements of various user communities. It appears to be a single assertion that depends on a variety of underlying assumptions and circumstances. It calls for a wide range of tasks involving a variety of equipment, materials, labor, and financial resources in a stable environment. Libraries exist for one reason: to help people of all social, economic, cultural, religious, linguistic, ethical, and professional backgrounds identify, locate, acquire, organize, and access information. In the modern world, where knowledge is essential to human progress and to the libraries that offer information services, it grows more complicated and

complete. As usual, libraries are among the first to adopt new techniques and equipment. The impact of the digital landscape on libraries as knowledge hubs is significant.

The environment for scholarly communication and information has changed dramatically, presenting both opportunities and challenges for higher academic libraries. This results in the delivery of new types of resource access, including local and remote services that are based more on anticipation than demand. Particularly in more urbanized metropolises like Bangalore, management institute libraries must continually update and modify their materials and services to better meet the needs of both individuals and groups of clients. Information demands and user evaluations, like the one conducted in the present study, are highly pertinent and justified in this context.

The world is present process a transition from print to a virtual era. it's miles essential for any sort of library to take part on this changing environment that is ready with electricity of IT (facts era). Libraries are being advocated to invest in their IT infrastructure if you want to take part in knowledge based on-line global for expertise sharing and improvement. Advances in statistics technology have delivered many adjustments in libraries. Information & Communication Technology has provided libraries by means of original opportunity to enhance their sources & offerings.

Within the gift records age, it's far surely impossible to maintain song with improvement sports within the absence of a reliable records gadget within the country. A conceivable statistics machine is an crucial pre-requisite for studies and improvement in every area of have a look at. Scientists & researchers require knowing concerning the statistics gear and capital obtainable for higher operation of records. Stoppage to supply correct & ample statistics to the scientists, planners & administrator can also cause damaged fallout with a purpose to, in flip, prevent national improvement. The answer lies in identify the accessible facts assets & ensure short distribution of in order to the worried customers thru different channel of verbal exchange. In this look upon libraries and data centers might be taken into consideration critical media, that could occupy yourself a active position in the ordinary diffusion and advancement of expertise and may provide proper statistics to the correct person on the proper occasion.

IT has end up a brilliant blessing for the technological know-how and taken super revolutions on this world. Now a day IT software can be seen in nearly every and each area of human lifestyles whether or not it's far education, clinical, banking, railway, verbal exchange, commercial enterprise, and so on. Libraries have additionally been adopting various facts era packages for their better control and gold standard use.

It's far a comparatively new discipline that has developed from pc technological know-how. IT covers the extra humanistic attitude of computer science whilst also incorporating some of the extra technical factors. it's miles a term that encompasses all paperwork (commercial enterprise records, voice conversations, nonetheless pics, movement photograph, multimedia presentation and other forms inclusive of those not yet conceived).

Statistics era can be described as a collection of technologies that allow records and knowledge to be stored and exchanged, accessed, displayed and communicated and in a few instances, synthesized and created. It consists of form of disciplines, which include Telecommunications, facts structures, software improvement, Hypermedia and Multimedia courses, database control device, Graphical and visual application and pc Modeling. it's far ubiquitous thru telecommunication networks, the internet, mainframe pc, laptop's palm tool, clever appliances that communicate to us etc.

In simple words, it could be described as the aggregate of pc and communication generation to system date into statistics. It's a convenient term for which includes both communique and computer generation inside the same paintings. it's far the technology this is using what has regularly been called "the records revolution".

RESEARCH METHODOLOGY

The current study's identification of ICT and automation practices in the investigated environment's libraries is descriptive in character. The study will be conducted utilizing a structured questionnaire as the method of data collecting. Throughout the study period, the researcher made numerous personal visits to the studied environment; as a result, the researcher's own observations and interactions with the respondents were added to the core data gathering process. Given the descriptive nature of the study and its survey-based methodology, standardized questionnaires for higher education institution library staff and users were employed to gather the necessary information. Personal observation and interviews were also taken into account to further increase the validity and reliability of the study. The collected data has been analyzed using the proper statistical tools and procedures.While any studies is performed, it's miles on any detailed populace. Population manner every and each entity which is to be protected under the examine or the result of the studies is supposed for those. Population of a observe may be the folks, organizations, items, events, and many others. Inside the gift look at, there are three classes of population i.e. special libraries, their customers and their library staff. General populations of unique libraries are 20, out of which nine unique libraries are of Meerut and eleven libraries are of Ghaziabad.

RESULTS AND DATA INTERPRETATION

On this stage, information is provided related to the analysis and justification of the data assembled by the library staff using a separate questionnaire. Here, the researcher attempted to identify the knowledge and skills of library staff members related to information era, their knowledge of library-specific information generating software, the supply of IT skills, their skill on various tools/offers/software related to the library control, and their attitude towards various aspects of IT programs. The investigation also includes conclusions regarding the library staff's perceptions of the effects of IT on the development of their expertise as well as the challenges and opportunities associated with the use of IT in libraries.

DESIGN AND MAINTENANCE OF LIBRARY WEBSITES

Libraries have been increasingly reliant on their websites as the primary portal to their resources and services in recent years. The need of building websites that are more appealing and interesting to visitors has been acknowledged by web designers both inside and outside the library. The aesthetics, structure, and user friendliness of a website are all evaluated using these criteria. Aesthetic design, consistency, proper use of pictures and typefaces, acceptable color selection, and appropriate page design were among the six subcategories of the website design.

TABLE-1: DESIGN AND MAINTENANCE OF LIBRARY WEBSITES

Design and Maintenance of Library Websites		No. of Libraries	Test Statistics
Type of Design	Staticsite	41(45.5%)	X^2=.198;p=.659
	Dynamicsite	38(42.2%)	
	No website	11(12.2%)	
	Total	**90 (100%)**	
Designed and Maintained by	IT Professional	49(54.4%)	X^2=6.806;p=.015
	Library Professional	36(40.0%)	
	No Website	5(5.5%)	
	Total	**90 (100%)**	
	Manual HTML, CSS,		

Platform of Design	PHP	57(63.3%)	X^2=34.483; p=.001
	MS Web Expression	4(4.4%)	
	Drupal	6(6.6%)	
	Joomla	7(7.7%)	
	Google Web Designer	0(0%)	
	Word Press	9(10%)	
	Weebly	0(0%)	
	Other (please specify)	5(5.55%)	
	No Website	2(2.2%)	
	Total	**90(100%)**	
Frequency of Updates	Never	6(6.6%)	X^2=30.164;p=.001
	Rarely	0(0%)	
	Occasionally	30(33.3%)	
	Frequently	44(48.8%)	
	Very frequently	10(11.1%)	
	Total	**90(100%)**	

In comparison to static webpages, Table-1 illustrates that a dynamic website provides ample chance to distribute library-related information in real-time. The survey discovered that 41 (45.5%) of library websites were dynamic, meaning that the web admin or web master could readily update or alter the information without much difficulty, and that 38(42.2%) of library websites were static. To be more relevant and engage library users, libraries must shift away from static webpages and toward dynamic or database-driven websites. The chi-square test found that dynamic and static websites with identical numbers of library websites had a significant difference ($X2$=.198; P=.659). The findings reveal that MEERUT AND GHAZIABAD libraries that still use static webpages are gradually transitioning to dynamic websites.

The study also looked into the design and upkeep of library websites. IT Professionals designed and managed 49 (54.4%) of the library websites, whereas Library Professionals designed and maintained 36 (40.0%). The chi-square test found a significant difference ($X2$=6.806; P=.015) between IT professionals and librarians in the creation and maintenance of library websites. This indicates that the majority of library websites are created and maintained by IT professionals.

The survey also looked at the tools and software used to create library websites, and discovered that the majority of them (63.3 percent) were created by hand using HTML, CSS, and PHP scripting languages. Drupal 9 (10.0%), Wordpress 7 (7.7%), and Joomla 6 (6.6%) content management systems (CMS) were also discovered to be employed in the development of library websites. The chi-square test found a significant difference ($X2=34.483$; $P=.001$) between the frequency groups of the various platforms, indicating that the bulk of the websites were created using manual HTML, CSS, and PHP scripting languages.

To determine how frequently the libraries under study updated their websites, it was discovered that 44 (48.8%) updated their websites frequently, 30 (33.3%) updated infrequently, and 10(11.1%) updated very frequently. However, it was discovered that one library (6.6%) never updated their website. The Chi-square test revealed a significant difference ($X2=30.164$; $P=.001$) between the frequency of updates for those who received updates more frequently and those who received updates less frequently.

WEB-BASED LIBRARY AND INFORMATION SERVICES

Due to the development and implementation of new technology, particularly the Internet and web technologies, traditional methods of offering library and information services have altered dramatically in recent years. Users' wants and expectations have likewise evolved significantly. In this new environment, an increasing number of libraries throughout the world are experimenting with and offering novel web-based library services such as web catalogues, web search engines, web forms, and so on.

The library's website provides community members with general information about the library, library and information services, and facilities. It also provides integrated access to the library's OPAC, institutional repository, multiple databases, and e-journals, as well as detailed information about the library's collection, library timing, library working hours, list of subscribed online journals, CAS / SDI / Reference services, popular documents based on circulations, reservations, and user feedback. A library webpage can be regarded as a search engine for library information. A library's homepage allows it to quickly communicate its services and facilities to the academic community throughout the world.

TABLE-2: TYPES OF FACILITIESPROVIDEDIN LIBRARYWEBSITESTO USERS

Facilities	Yes	No	Total	Test Statistics

User Accounts Facility	10(11.1%)	70 (77.7%)	90 (100%)	X^2=17.940;p=.001
Catalogue search embedded in personalized user account	39(43.3%)	51 (56.6%)	90 (100%)	X^2=.016;p=.913
Individualized interface services	18(20.0%)	72 (80.0%)	90 (100%)	X^2=16.494;p=.001
Compatible with mobile view	40(44.4%)	50 (55.5%)	90 (100%)	X^2=2.036;p=.154
Online library tours for users	27(30.0%)	63 (70.0%)	90 (100%)	X^2=1.458;p=.227
Library collections and Resources details	36(40.0%)	54(60.0%)	90 (100%)	X^2=65.312;p=.001
Links to e-resources and Useful sites	81(90.0%)	9(10%)	90 (100%)	X^2=61.738;p=.001

The sorts of services available to users on library websites are listed in Table-2. It was discovered that 44.4% of libraries had user accounts on their websites, 43.3% had catalogue search enabled user accounts, 48 percent were mobile-friendly, and 90.0 percent featured access to e-resources and valuable websites.

When chi-square tests were applied to the "yes" and "no" frequencies, significant differences were discovered for features such as user accounts on the library website ($X2$=17.940;p=.001), Library website offers individualized interface services ($X2$=17.940p=.001), Library collections, resources details ($X2$=65.312;p=.001), and Links to e-resources and useful sites ($X2$=61.738;p=.001). More defective services were noted in the case of user accounts on the library website, and the library website offers personalised interface services. Better facilities were offered in the case of library collections, resource details, and linkages to e-resources and valuable sites.

CONCLUSION

Library team of workers need to be deputed for the schooling programmes on IT packages being prepared by unique institutions occasionally and additionally in the meetings, seminars & workshops prepared frequently in the subject of library and statistics technology. Library group of workers should have effective mindset to help the customers as they may now not be conscious with ICT based totally system and offerings of the library. It's far found that library staffs in most of the selected libraries. That is the most important trouble of the libraries to broaden with the help of new IT traits. Worried authority must recruit the library personnel competently so that libraries can function smoothly. Greater library experts with the extra qualification in computer systems ought to be appointed for the libraries, as they've better capabilities to manage the library, recognize the need of the users, provide the brand new library offerings the usage of records technology. For correct recognition of library users approximately the sources and offerings of the library, Librarians should start advertising of library offerings and their assets for better utilization. Libraries must offer consumer training and orientation programme about the functioning of libraries, its sources and services, in order that the customers can be aware completely about the library and can completely make the most the to be had assets and offerings of the libraries. It'll additionally promote the customers to draw in the direction of the libraries for higher use. Library customers need to be provided the demo of automated and generation based services and centers of the library. This sort of programme may also be organized in affiliation with the library suppliers and carriers of such ICT based systems and offerings. Because of speedy boom in the field of ICT, libraries are also being modernizing. The changing ICT developments in libraries have at once impacted the users' conduct for searching for their statistics. As a result, libraries should initiate the data literacy programme to make the customers successful to are trying to find the records in changing ICT surroundings. Library body of workers ought to promote the use of loose/Open source software available within the field of library management. At gift specific varieties of open source software program are available within the field of libraries like Library automation software, (WINSIS, ABCD, WEBLIS, KOHA, SOUL etc.), virtual library/Institutional repository software (Greenstone, E-prints, D-area etc.), content management software, e- aid control software program etc.At some stage in the statement of libraries, it's far located that in few libraries printed cloth isn't always being acquired properly and copies of published books aren't to be had in sufficient numbers. It's miles counseled for the libraries that to increase the extent of pride f library users printed collection must first be maintained accurately.

Very few libraries are subscribing the e-journals in the selected libraries which is very essential in gift time for promoting the instructional and studies sports. It's miles endorsed for libraries to subscribe e-journals in particular challenge regions. It is discovered within the observe that users have very positive attitude in the direction of using

e-resources, consequently it'll satisfy the need of library users and boom the extent of satisfaction, if users are provided the access of e-journals.

Availability of facts sources as according to need and requirement of library customers is the important thing for achievement of a library. All of the libraries have to subscribe different e-assets as in step with requirement of library which include on-line and off-line databases, statistical databases, e-books etc. extensive range of such assets will definitely fulfill the customers' want of facts and also ease the accessibility for the users. Consequently, customers' records want could be glad to the better extent with the provision of digital assets like complete-textual content databases, and entrée to internet base totally assets, and many others.

It is observed that maximum of the selected libraries nonetheless acting their features and housekeeping activities thru guide strategies. A number of those haven't begun partially automated their residence preserving capabilities. As a result, it's far recommended that all the libraries should as a minimum first introduce the overall library automation gadget of their libraries. Entire library automation of modules like acquisition, cataloguing, periodical, circulation, indexing, and so on, is the very initial steps of libraries towards modernizing the libraries with adoption of facts technology. Greater advanced application of IT couldn't be even idea without automation of libraries.

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