Digital library as learning resources

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Abstract. Information and Communications technology (ICT) has been widely applied in digital library services to improve the knowledge and the public interest. Researchers can easily obtain the information of interest through internet surfing. Digital libraries seek to provide prospective readership with alternative materials for reading. They also preserve the culture, customs that could be learnt by future generations. The utilization of digital libraries as learning resources include educational and community aspects. The purpose of this paper was to review and analyse the impact of a digital library system in education on potential readership.

1. Introduction

Illiteracy is one of the societal vices that should be eradicated. Societies can be transformed from a culture of not reading through development and promotion of digital libraries. By cultivating that culture of studying, quality human resources could be produced for benefit of society, business and industry at large. Modern libraries should appeal to the readership. Excellent libraries develop reading interest and habits in readers. Libraries have an important role of enhancing reading interests and habits as information banks or reading resources centers [1]. Most libraries are managed by learning institutions and are usually conveniently situated to the reading public or communities [2,3]. The iniquitousness of ICT makes digital libraries readily accessible by potential readership.

Digital libraries are invaluable conduits that ensures that useful information is readily accessible and retrievable by potential readership [4,5]. Well-designed digital libraries have incremental benefits to readers in terms of usability [6]. Excellent digital libraries are accessible and information can be ubiquitously retrieved [7].

Recently, digital libraries have been getting a lot of interest all over the world [8]. There are several studies that dwell on digital libraries such as Library of the inscription Cultural Heritage Africa, that provide knowledge about collections inscription of cultural heritage [9]. The absence of digital libraries has been constraining distance education in Ghana due to lack of strategic support, consistent policies and specific funding for the design of digital libraries [10]. To ensure that readers are satisfied and remain loyal, Chinese university libraries have been getting recommendations on the basis of both objective and subjective criteria to improve the quality of digital library services [7,11].

This article discusses how important is a digital library as a learning resource. The aim of the study was to explore and evaluate the importance of digital libraries as information resource banks as well as
articulating on how educators and researchers can effectively use this information to identify the issues that have not been answered or questions in the literature. Future research directions can be shaped out of attempted questions or issues. This article will focus on the following: digital library history, methods, results and discussion and conclusions.

2. What is a digital library?
The digital library is an information technology that is designed as a digital knowledge resources, or can be referred to a medium that stores data on a large scale and is collaborated with the information management device capable of displaying the data or information required by the user. Digital libraries can be broadly defined as an information storage and retrieval systems that manipulate digital data in the media (text, images, sound, static or dynamic) on the internet [8,12]. Digital libraries provide resources, through a dedicated staff that run the application so that the collection of books available increases for the benefit of learning institutions and readership in general [13]. Digital library based on information technology is very important in that it makes reading materials readily available to the readership [4,14].

2.1. What is the purpose digital library?
The digital library is different from the regular library which is a collection of printed books and the like, the data in the digital library is located on the computer server that can be placed at a remote location, but can be accessed by users from a distance using a computer network. Digital libraries are expected to enhance reading interests and habits as information banks or reading resources centers [1]. Learning institutions should manage digital libraries as they determine their successes in the world of education [2,5].

| Advantages                                      | Deficiency                                           |
|------------------------------------------------|------------------------------------------------------|
| • More efficient, accurate and guaranteed authenticity | • Lack of clarity on Copyright rights. Currently there is on-going debate on Copyright law. There is lack of clarity on digital transfer readable materials via computer networks. |
| • Control of plagiarism can be easier.         | • Electronic document, articles, or books management process goes through several stages. |
| • Lecturers can also prepare learning materials without sifting on piles of shelved books. | • Cannot be accessed in case of technical problems, such as tissue damage and the lights off. |
| • Students can easily retrieve and construct knowledge out of digitally stored reading materials. |                                                     |
| • Authors will be proud if their articles are highly cited. |                                                     |
| • Can be accessed from anywhere making it easier for users |                                                     |

The physical management of libraries have many shortcomings that includes limited opening hours, poor maintenance of books, disorderly shelving of books, inadequate stocks books, obsolete reading materials to mention a few and lack of harmonization of book storage and the supporting computer storage system [15].

3. Method

3.1. Finding and selection procedures
This study analysed and studied literature relating to the use of the Digital Library as a learning resource bank. Research article published between 2003 to 2018 were considered. Digital Library was the key word
for searching and retrieving the articles. Research articles were searched and retrieved from the following electronic databases; IEEE (Institute of Electrical and Electronics Engineers), ScienceDirect, SAGE and Taylor & Francis. In this systematic review article, relevant digital library articles were reviewed.

The following steps were followed: 1. Searching and downloading into a single file of relevant articles mainly from IEEE, ScienceDirect, SAGE and Taylor & Francis electronic databases. This was subsequently followed by manual review of the articles in a log book. Reviewed articles were then typed into spreadsheet through which article coding and analysis was conducted. The ultimate step was the actual writing of this systematic review article.

3.2. Analysis and coding process
Digital Library were reviewed on the basis of the title of the article, study (Author, publication year, study place, publisher), research method used (research design, data collection methods and data analysis methods) and research findings. Table 2 shows a summary of some of the reviewed studies.

| Topic research | Study | Research methods | Basic finding |
|----------------|-------|------------------|--------------|
| Acceptance of digital library among female students and effects of limited access of digital libraries on their performance in research work: A case of International Islamic University | Muhammad Arif (2009) Taylor & Francis | Survey | Access to the digital library is indispensable for students so that they can complete their research work. With limited access to a digital library students are not able to meet the needs of their information from the Internet and other university libraries. |
| Predicting the Use of a Digital Library System: Public Authority for Applied Education and Training (PAAET) | Mohammad A. Alajmi (2014) Taylor & Francis | structured questionnaire | Perceived compatibility and the perceived image insignificantly impacted on the rate of adoption. The implications of the findings and future research directions are discussed. |
4. Results

The main research findings were grouped as: (a) the impact of Digital Library on Education and (b) the impact of Digital Library on Society. Table 3 shows a breakdown of the research themes and the identified sub-topics.

Table 3. List of identified themes and sub topic.

| Theme                                      | Sub-topics                                      |
|--------------------------------------------|-------------------------------------------------|
| Impact of Digital Library, on Education.   | As learning resource for successful learning.   |
| Impact of Digital Library on Society.      | Utilization of Digital Library as a medium of information for the public and researchers. |

4.1. Impact of digital library on education

Application Digital Library in Education can help in getting information quickly and dynamically. The digital library can also allow instructors to upload learning materials for the convenience of students and interested readership [16], alternative instructional pedagogies for the benefit of learning institution can also be uploaded on digital libraries [17], and digital libraries can also be of great use to International Islamic University students [18]. The development in digital media library of the entire system that meets the needs of three Auburn University's mission: teaching, research, and outreach [19], be a full-service educational resource for scholars and students conduct research in the field of religious studies [20], Building a Digital Library Support for Distance Learning [21], Colima University have developed a digital library of
information technology as a source of information [22]. The digital library is designed to enable students to study the field of environmental issues [23].

4.2. Impact on society digital library
For the people of Digital libraries are also very useful, in addition to the information society can also preserve they consider important: A Digital Library, Archives and Museum on Indigenous tribes karuk [24], build the model and surrounding communities Karamanlides using digital library technology [25], digital library that is used for a repository of cultural heritage and for Collection Museum [26], the Caribbean libraries, museums and archives have helped the community of scientific research [27], designing digital library as a source of information for the people of India [28], Users Satisficing Digital Library to meet the information needs [29], the digital library OSTMED.DR help promote and facilitate research and scientific activities in the osteopathic profession by providing ready access to current osteopathic literature until now difficult to find the resources, including historical documents [30], The importance of cultural policies for the development of institutions to increase cultural production and diffusion through digital libraries in China [31], digital library collections and collections in the provision of effective information resources [32].

5. Discussion and conclusions
The purpose of this paper was to present the reviewed studies focusing on the impact the use of the Digital Library as a learning resource. Analysis studies with more emphasis on: (a) Impact of Digital Library on education, and (B) Impact on Society Digital Library.

Overall, the findings of the review on the topics and sub-topics that were analysed showed that the implementation of the Digital Library is very helpful education: to get information quickly and dynamically, students can learn and create a digital library, assist in the process of learned teaching, and the university can help in getting catalogues, reference and information about research, While the findings of the analysis of the topic and sub-topic on implementation Public Library on shows that: the implementation of the Digital Library greatly assist the public in obtaining information more quickly, to preserve the cultural and historical relics that can be in the show and learned by others in the future, the company can create a library and provides information on its products.

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