



Library Development Strategies in Accelerating Information Technology in the Digital Age

Irva Yunita^{1*}, Sabrina Az Zahra²

¹² Raden Intan State Islamic University Lampung, Indonesia
Correspondence ✉*irva@radenintan.ac.id

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Abstract: Libraries do not escape the reach of accelerating information technology. In accordance with Law 43 of 2007 concerning Libraries Article 14 Paragraph 3 which requires libraries to keep up with technological developments. Currently, the library has been transformed into digital. A digital library is a library that utilizes information technology in its management. This article aims to find out the digital library in the acceleration of information technology, as well as the development strategy of a digital library and its influence on society. This article uses a literature study method that reviews and analyzes previous research sourced from journal articles or books. It can be seen that the strategy for developing a digital library service system in this era includes (a) selection of devices -software and hardware- to be used, (b) good interface design, (c) services presented to users, (d) information security, (e) training and counseling on digital library literacy, and (f) promotion through social media.

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INTRODUCTION

In the era of accelerating information technology, libraries have undergone a significant transformation in the way they present information and services to users. Digital libraries have become a very important necessity in meeting the information and educational needs of the community. In this context, the development of a digital library service system becomes very relevant in improving the quality and efficiency of library services.

The strategy for developing a digital library service system should consider the challenges and opportunities offered by information technology. In recent years, information technology has developed very quickly, opening up new opportunities for libraries to improve service quality and efficiency. As when Covid-19 began to hit the world since 2019 which until now continues to mutate into a new virus. The needs of distance-access society continue to penetrate into various aspects of life. One of them is the library as the heart of downstream community information. This can be used as an opportunity for every agency to build a quality and efficient digital library.

The development of a digital library service system should also consider other aspects such as security, privacy, and accessibility. In the digital era, data security and privacy are very important, as well as system accessibility to ensure that users can easily access the information they need. Therefore, a digital library service system development strategy should consider all these aspects to ensure that the system developed can meet the needs of users. This is in accordance with Law 43 of 2007 concerning Libraries Article 14 Paragraph 3 which reads "Each library develops library services in accordance with advances in information and communication technology (Suri,

G. P., & Arifin, N. Y. (2020). So the library is required to always keep up with the accelerating flow of information technology according to the needs of library users or users.

In developing a digital library service system, the role of information technology is very important. Information technology can help libraries improve the quality and efficiency of their services, as well as meet the information and education needs of the community. For example, information technology can help libraries develop collection management systems, lending systems, and information systems. This digital library can be in the form of a website, application, or specific system. For example, digilib, repository, Slims, Eprint, and in the form of applications such as Ipusnas, Isantri and others.

In addition, the development of a digital library service system must also consider other aspects such as cultural and social. The availability of quality human resources who can work according to their duties and can keep up with the flow of technology. The digital library workforce must understand how to utilize and implement science and technology in accordance with their duties. Of course, it is also supported by an IT team to manage the digital system used.

This article aims to recognize digital libraries in the acceleration of information technology, as well as strategies for developing a digital library and its impact on society. In this article, we will discuss strategies that can be applied in developing a digital library service system that can improve the quality and efficiency of library services, as well as meet the information and educational needs of the community. This strategy can be done by identifying the needs of users, what kind of digital library is efficient to use. Then, design the library service system to be built. Whether using a website, application or specific system. As has been done by SMP Ibnu Sina Kota Batam which uses the Modified Waterfall software engineering model Also designing UML (Unified Modeling Language) models, using the PHP programming language, using the CI framework, Mysql for database creation, Sublime Text 3 for creating designs or displays, Xampp as a server or programming language link and the testing method used is the Black Box Testing method on the digital library website of SMAN 18 Tangerang Regency (Junaedi, A., Drajat, D., Syihabuddin, R. I., Damayanti, U. M., & Wahyutama, M. F. (2021).

In addition to determining the desired output of users and also designing a digital library system, training and counseling for librarians, staff, and library users should be held. This training is done to increase literacy about digital libraries for both librarians and users. The counseling is also done as a promotion to the general public about the digital library that is being developed. In order to attract public attention, a library usually conducts content branding through social media platforms, such as TikTok, Instagram, YouTube, and others. The Sungai Penuh City Dispusip Library utilizes Instagram as a promotional medium. This Instagram account actively introduces services, programs, the definition of the library itself, and even innovative competitions that attract public attention (Handayani, F., & Apolinario, R. R. U. (2023).

In this article, the author also tries to identify whether digital libraries have efficient value for library users. It is said in a study that, students' academic performance can be affected by the existence of system development, information promotion facilities, preservation deposit functions of library materials in a digital library (n.d.) Another study was conducted by R. Batubara, that the provision of diverse sources of information or library materials can increase a person's interest in reading.

METHODS

The method in this article uses library research. According to Zed Adlini et al, the library research method is to collect data by understanding and studying theories from various research-related literature. There are four stages of library learning in research. This means preparing the necessary equipment, preparing practical reference materials, allocating time, reading research materials, and taking notes. This data collection uses the method of searching and collecting sources from various sources such as books, journals, and research conducted. Various reference materials have been critically analyzed and should be thoroughly analyzed to support suggestions and ideas (Bansode, N. N., & Shinde, M. G. (2019). In this article, the authors provide ideas that

refer to previous studies related to digital library development. The author uses references from several journal articles and books that contain theories, ideas, and narratives, in accordance with the title of the article raised by the author.

RESULTS AND DISCUSSION

Definition of Digital Library

According to Cleveland', "A digital library is a library that has the same aims, functions and objectives as a traditional library - collection development and management, subject analysis, indexing, access provision, reference work and preservation. In a narrow sense, digital libraries that focus on digital formats hide the extensive behind-the-scenes work that libraries do to develop and organize collections and help users find information" (Bansode, N. N., & Shinde, M. G. (2019)). It can be seen that a digital library is a library that utilizes information technology in its management. According to the International Digital Library Council (2004) in Arum and Marfianti, the definition of a digital library is an electronic library where information is obtained, stored, and accessed in digital format. A digital library is a group of workstations connected through a high-speed network (Arum, A. P., & Marfianti, Y. (2021)).

Establishing a digital library is a complex task and cannot be done easily or cheaply. It depends on several factors such as the goals of the organization, the value of timely information, the availability of infrastructure and the resources required for conversion. The essential components of a digital library are:

1. Local library system, with a sufficient number of PCs having LAN, local machine-readable databases, CD-ROMs etc. provision to provide email services, access to servers and to remote databases etc.
2. Networks, including networks of networks.
3. Various system functions to coordinate, manage data entry and retrieval.
4. Trained workforce (Bansode, N. N., & Shinde, M. G. (2019)).

In addition to the above understanding, the concept of digital library according to Siregar (2008) et al Alam and Marhuanti are: (1) Access to the library is not limited by time and space and can be accessed anytime and anywhere. (2) Electronic collections will continue to grow, while print collections will decline. (3) The collection can be text, image, or audio. (4) The use of electronic information and printed materials will continue to increase. (5) Information budgets and licensing fees are transferred from ownership to customers. (6) Increased funding for facilities and infrastructure development. (7) The purpose of buildings is changed from conference rooms to training rooms. (8) Jobs, education, and ways of thinking will change. Digitization converts analog signals into digital format (Arum, A. P., & Marfianti, Y. (2021)).

From some of the material regarding the definition of digital libraries above, it can be seen that digital libraries are libraries that use information technology in their management. The establishment of a digital library requires factors such as organizational goals, the value of timely information, infrastructure, and necessary resources. The concept of digital libraries includes access without time and space limits, the growth of electronic collections, and changes in information usage and budgets. Currently, there are several examples of applications about libraries, such as i-Jogja, i-Pusnas, i-Santri, and so on. As for the system, for example, Slims, E-prints, and others.

In line with the previous definition of digital library, below are the advantages of digital libraries compared to conventional libraries according to Al Rosid and Alvina:

1. Saving space, digital information management does not require physical space or buildings.
2. Multiple access. Digital information collections can be used by more than one person simultaneously without reducing the value or damaging the information.
3. It is not limited by time and space. Digital library access can be done anywhere and anytime.
4. Cost is more affordable (Al Rosid, M. H., & Alvina, R. (2022)).

Acceleration of Information Technology

Information technology was born in 1947, in line with the emergence of computers as a major component. The technological period after the period that exploited matter around 50,000 years BC until the 18th century and followed by the technological period that exploited energy from the 18th century to the 20th century, namely around 1947 (Fahrizandi, F. (2020). With the advancement of information technology, the use of computers began to expand. The rapid development of information technology has a direct and indirect impact on most aspects of human life. The development of information technology due to the industrial revolution has generally gone through several stages that can be identified at each stage of its development.

The development of information technology occurs as a sign of the growing industrial revolution. Starting with the 1.0 era until now, which has entered the 5.0 era. The industrial revolution 1.0 was marked by the beginning of the development of the steam engine. Then, World War I ushered in the Industrial Revolution 2.0 which was marked by the process of making weapons of war. The process of making war equipment is carried out through the establishment of factories. With the Industrial Revolution 3.0, the industrial era began to end. With the end of the Industrial Revolution 3.0, the Information Age began. Industrial Revolution

4.0 is characterized by the digitization of everything within the grasp of hands, smart phones, and related objects Industrial Era 5.0 is a human-centered and technology-based society. According to Klaus Schwab, the

Industry 5.0 has changed the way we live, work and interact with others. The Industrial Age 5.0 is an era where evolving technologies such as artificial intelligence, robotics, and nanotechnology are combined with human potential to create innovative solutions and have a positive impact on society (Fatimah, S., Lailia, S. A., Seftiana, A. F., Ayu, S., & Rista, V. N. (2023).

The acceleration of technology has penetrated into various aspects of people's lives. The fields of health, economy, social, culture, arts, and education are already within the scope of current technological developments. In the health sector, for example, there are many sophisticated and practical medical devices that make it easier for doctors and all health workers in their work. In addition, in the field of education, schools used to only utilize chalk blackboards or paper notebooks in learning activities. But now, both teachers or students can use digital media that is more practical, such as digital monitors to replace blackboards, the existence of worksheets or digital references that can be accessed anywhere at any time using gadgets or other electronic devices.

Libraries are not immune from the reach of today's technological acceleration. It culminated in social distancing as a result of the outbreak of Covid-19 around the world. At that time, various layers of society and regardless of occupation, were required to go online as an effort to minimize the spread of the virus. For example, in hospitals there should be no queues or crowds of people in the administration room. Because of this, prospective patients are required to complete administrative files online through a certain system. The same condition occurs in the library and library environment. Moreover, the teaching and learning process is still carried out online. Researchers, students, and others are still required to find relevant sources such as sources in the library. However, this social distancing becomes an obstacle. So that digital education platforms are needed, one of which is a digital library.

This digital library can make it easier for people to access valid and professional information. Many institutions have developed digital libraries to facilitate the search for information. Not only done by educational institutions, digital library development is also carried out by government agencies or offices. For example, the Research and Development Agency of the Ministry of Home Affairs of the Republic of Indonesia which uses Functional Requirements for Bibliographic Records (FRBR) as a digital cataloging arrangement Then the development of a digital library website at Repsol Company, one of the energy and petrochemical companies that

requires researchers to conduct regular research and innovation (Leal, L. de C., & Pagés, E. L. O. (2023)..

Each library has different reasons for utilizing information technology. The reasons for utilizing information technology in libraries include: 1) Catalog searching will be easier; 2) Users will be able to search the library catalog from outside the library; 3) Provide better information services;

It is easy to edit and update bibliographic information; 4) Make more space in the library; and 6) Your library image will improve (Fauziah, Tarissa, Harahap, Islam, & Sumatra, 2023). Information technology is utilized by libraries to facilitate long-distance access. Then the procurement of diverse and more library materials because the physical library materials do not take up much space in a room. Searching for information can also be fast, and so on.

Digital Library Development Strategy

As mentioned earlier, building and developing a digital library is very difficult and costly. A library founder or head should do the following during the process of building, developing and running a digital library:

1. Planning.

The head of the library has developed a plan to develop the digital library. For example, a digital library that is built based on an application or website. Thinking about whether the application or website can be developed in the future, whether there will be problems when running, as well as how to handle and overcome the trouble condition. Also what services you want to provide in the digital library.

2. Organizing.

In organizing the library head must group HR and then determine the HR jobs. What is needed by the head of the library in developing a digital library is the appropriate human resources.

3. Implementation.

The digital library that has been planned and designed previously is implemented or run to the general public as a product or output produced.

4. Supervision and maintenance.

During implementation, supervision and maintenance of the digital library website or application must be carried out. This supervision and maintenance must be carried out regularly. This is done in order to minimize any trouble conditions on the website or digital library application. Whether it is a lag or bug that occurs, or input from users (Al Rosid & Alvina, 2022).

In addition to the four points above, there are several more things that need to be considered to develop a digital library. These are (a) selection of *software* and hardware to be used, (b) good *interface* design, (c) services presented to users, (d) information security, (e) training and counseling on digital library literacy, and (f) promotion through social media. A digital library will run well if it has a good system. The following is a more detailed explanation of library development strategies.

a. Selection of devices to be used

Some considerations in computer hardware selection, installation, and troubleshooting, namely:

1. Software selection, installation, and support
2. Local and/or network wide administration of security responsibilities
3. Internet support, including router, proxy server, and firewall configuration
4. Security and stability of public computing environments
5. Web page design and maintenance
6. General help desk functions
7. Database vendor liaison
8. Selection and implementation of electronic resources

9. Native script programming
10. Digitization, archiving, and cataloguing of document collections, intranet support and design
11. Staff training and protective technology
12. Maintaining and migration system library system integrated library system (ILS), upgrades, and training
13. Database development and programming
14. Project management
15. Create technical documentation
16. Create RFPs and required system specifications for System vendors
17. Having a budget and management As mentioned earlier, the Sam Ratulangi University application has launched a library application using the PHP programming language with the CodeIgniter Framework and MySQL database This library product is the result of analyzing several points below:
 - a. The information system can be used to process book loan and return circulation data. The information system can be used to search for book collection information.
 - b. Information systems can be used to record library visits.
 - c. Information systems can be used to process student data.
 - d. Information systems can be used to process author data.
 - e. Information systems can be used to process book data.
 - f. Information systems can be used to process and display library-related information.

There are three ways to obtain software for a digital library, namely: building with the help of programmers who are still within the scope of one agency, using software, free of charge, buying commercial software along with training and support built by third parties. Then, based on a case study at SMKN 1 Bandar Lampung conducted by Siyasih, the digital library used at the school is web-based with the *title* e-Library (UIN North Sumatra is also application-based for its digital library, more precisely an integrated application where each part of library collection management and customer service is connected to one another. And as the duration grows, uinsu's digital library grows into library uinsu. ac. id, where this website system we can read online and borrow it to read offline (Fauziah, S., Tarissa, S., Harabap, A., Islam, U., & Sumatra, N. (2023).

At the same time, there is a cataloging method that is considered more efficient to be applied to digital libraries, namely FRBR (*Functional Requirement Bibliographic Record*). IFLA developed the FRBR concept in 1998. This concept is technically specialized in representing bibliographic relationships and applying the entity relationship model of information sources. This model is used as a step change to leave the *single record* concept used in previous catalog systems. The FRBR concept allows users to consider their information needs from various points of view, making it easier for users to find information. Secondly, it improves the information retrieval process and increases the productivity of cataloging. The mechanism of the FRBR concept in information retrieval can be seen as follows. The information seeker searches for a book titled "The Life and Strangeness of the Amazing Adventures of Robinson Crusoe" by Daniel Defoe. The information seeker searches by entering the author's name or title in the search field. In addition, a search engine whose metadata structure is based on FRBR connects the Book Title entity to the Author Name entity, Manifesto entity, and Article entity. This FRBR model has been implemented in the KEMENDAGRI Library (Lib, E. D. U., & Mayesti, N. (2021).

b. Good Interface Design

User interface design is a very important element in any application. The user interface is the intermediary of interaction between the user and the application. The user interface can also indicate the competence, trust, level of acceptance and usability of the application by each user. The criteria for a good user interface in digital library applications are: system speed when searching for collections, simplicity of application display, good navigation capabilities, responsive application systems, and the ability of users to interact with application systems appropriately, user interface, and consistent component placement and flexibility of application

access across devices with different screen sizes for use by all groups (Wahyuni, A. S., & Dewi, A. O. . (2018).

The app should help users quickly find the information they need. The speed at which information is found determines the user's perception of the app. Users will be frustrated if your app tends to take a long time to find the information they need. The app should also be able to respond quickly when starting, stopping, and restarting the app with little or no hitches. In addition, this application facilitates the communication process between users or with the system by displaying notifications after receiving messages and warnings Zamri (2015) in Wahyuni and Dewi In addition to minimal *bugs* or *buffering*, the *interface* should also be made attractive.

c. Services Provided to Users

Digital libraries provide a variety of services to their user community, making them more widely available. Here are the services offered by digital libraries:

1. Internet service
2. Selective dissemination of Information Service
3. Selective Current awareness service
4. Externally-internally purchased database
5. CD ROM database service
6. Document delivery service
7. Interlibrary loan service and union catalog
8. Catalog database service
9. Email service
10. Netnews system service
11. E-book service
12. E-Journal Service
13. Photocopy Service
14. Translation Service
15. DVD-ROM database services etc. In addition to the above services, it is important to provide space to users as a form of *feedback* for evaluation of a digital library. Users can directly provide input through the application or website or also *developers* can also integrate the WhatsApp application number.

d. Information Security

The information security in question relates to information services and needs to consider the following aspects:

1. Confidentiality. This means that data or information must be kept confidential and only authorized persons can access the information. This allows us to identify you personally and guarantee the confidentiality of the data you submit.
2. Integrity, an aspect that ensures that data is not altered without permission from authorized parties, maintaining the accuracy and completeness of information, and processing methods to ensure its integrity.
3. Availability. The aspect of ensuring that data is available when needed and that information and related tools are available to authorized users. In this context, information security also involves implementing a number of management tools, policies, and procedures (Galih, A. P. (2020). An example is research on iPusnas information security. This application has guaranteed the confidentiality of user personal data and collection data borrowed by users. The iPusnas application has a license policy where when the user has an account and logs in with the account, the user is stated to agree to all the provisions in the iPusnas license policy. The granting of this license is in accordance with the Perpunas agreement with PT Woolu Aksara Maya as the iPusnas application developer. One of the regulations in the license is the stipulation that users are prohibited from copying, modifying, disseminating, hacking, and damaging iPusnas digital applications or collections (Galih, 2020).

e. Digital Library Literacy Training and Counseling

Human resource management (HRM) is a key element to improve organizational quality. In general, the electronic library standards are almost the same as the electronic library standards stipulated in the Library Law Number 43 of 2007 which stipulates six standards that libraries must have: (1) collection standards, (2) facilities and infrastructure standards, (3) service standards, and (4) library staff standards, (5) implementation standards, (6) management standards. Librarians must be responsive in developing the librarianship profession by attending seminars, scientific discussions, workshops, writing papers: Scientific journals and books to be able to anticipate changes that occur due to the development of information and communication technology, responsible for improving knowledge and skills on an ongoing basis related to their duties and responsibilities (*Susinta, A., & Senjaya, R. (2022)*). Users also need to be given counseling about the digital library that has been built. This counseling can be done virtually through zoom or google meet. This also indirectly promotes the library that is being developed.

f. Promotion Through Social Media

This promotion can be done using the Instagram platform as done by the Sungai Penuh City Library and Archives Office (*Handayani, F., & Apolinario, R. R. U. (2023)*). This promotion aims to introduce the library in a more creative and innovative way. Users will be more interested if they see interesting and creative advertisements. Library staff in the public relations department can create interesting content about the library itself. The content can be in the form of animated videos or cartoons. On the account we can also notify *events* that will be held, for example competitions, webinars, *toefl* tests, and so on. Promotion can use other platforms, such as TikTok, Facebook, and so on.

The Impact of Digital Libraries on Society

Digital libraries have the following roles:

1. First, digital libraries can collect and provide information in electronic format to meet people's information needs.
2. Second, digital libraries are related information organizations that focus on the Internet in information technology, metadata, information search systems, telecommunications networks, the ability to use the Internet, and the ability to use professional digital methods.
3. Thirdly, digital libraries are essential for the dissemination of digital collections and providing ready access to them for the user community. Tight, precise and simple.
4. Fourth, digital libraries serve to preserve digital collections to maintain the value of the desired information.
5. Fifth, digital libraries can play a role in enforcing public access rights to avoid information ethics, copyright issues, and theft.

In addition to the five roles above, there are studies that say that libraries have an impact on a person's reading interest, especially students. Developing students' interest in reading through digital libraries has several benefits. *First*, digital libraries can stimulate students to be more fond of reading and have good thinking power because they can be accessed anywhere and anytime, also for students who lack time to come to conventional libraries can take advantage of this digital library. *Second*, to bring appropriate and credible reading materials closer to students. *Third*, students can read books at any time without having to go to the university library, because through the digital library, reading materials needed for the lecture process are available. *Fourth*, lecturers can make digital libraries part of lecture activities (*Batubara, R. M. (2023)*). Then there is also research that explains that the variety of collections in digital libraries affects the level of academic intelligence of a person.

CONCLUSION

Based on some of the above explanations, it can be concluded that a digital library is a library that uses information technology in its management. The establishment of a digital library requires factors such as organizational goals, the value of timely information, infrastructure, and

necessary resources. The concept of digital libraries includes access without time and space limits, the growth of electronic collections, and changes in the use of information and budgets. Information technology is utilized by libraries to facilitate *long-distance* access. Then the procurement of diverse and more library materials because the physical library materials do not take up much space in a room. Searching for information can also be fast, and so on. A library head should do several things (1) planning, (2) organizing, (3) implementation or implementation, (4) supervision or maintenance. Strategies that can be done for digital library development include (a) selection of devices -*software* and hardware- to be used, (b) good *interface* design, (c) services presented to users, (d) *information* security, (e) training and counseling on digital library literacy, and (f) promotion through social media.

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