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"Innovative Information Management : Towards a  
Reading Nation"**



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Norhazlan Bin Nordin  
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Asmah Binti Sabtu  
Mohd Ismail Bin Abidin  
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Noor Azureen Binti Abd. Aziz  
Wan Noor Sazidah Binti Wan Fauzi  
Muhammad Asyraf Bin Mohd Hata  
Nurul Nadiah Binti Harun

# **Innovative Information Management: Towards a Reading Nation**

Proceeding of the 1<sup>st</sup> Library and Information Professional Seminar  
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Organized by  
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# Evaluation Of Utilization Of Digital Library Applications Universitas Muhammadiyah Sumatera Utara

Muhammad Arifin<sup>1</sup> and Isva Affannura Khairi<sup>2</sup>

Faculty of Teacher Training and Education,  
Universitas Muhammadiyah Sumatera Utara,  
20238 Medan, North Sumatera

Email: <sup>1</sup>muhammadarifin@umsu.ac.id; <sup>2</sup>isva.ac08@gmail.com

## ABSTRACT

*The purpose of this study evaluates the use of UMSU Digital Library and the level of utilization of UMSU digital library applications. This study uses descriptive qualitative research. The study was conducted at the Library of the University of Muhammadiyah North Sumatra and the Campus Environment of the University of Muhammadiyah North Sumatra in January 2020. The informants of this study were the Head of the Library of the University of Muhammadiyah, North Sumatra, 10 users of UMSU academics and non-academics users of UMSU. Determination of informants using purposive sampling techniques Data collection is done by using in-depth interviews (depth interviews) and observation. The results showed that the lack of collections provided by the UMSU Digital Library application resulted in the low utilization of UMSU digital library applications by UMSU students and non-UMSU academic community users. And also UMSU Academic Non-civitas Users know the application from the Google and Google Play Store suggestions and references when they search and use online library keywords, curiosity makes them interested in using the UMSU digital library application.*

**Keywords :** *Digital Library, Library Application, M-Library, ICT*

## 1.0 Introduction

Science and Technology (Science and Technology) is developing more rapidly making someone easier and faster in finding information. Higher education libraries have the aim of helping universities in providing information to students. University library users who are students of the millennial generation whose entire activities of their lectures need technology either looking for references or accessing many things they need. One of the information and communication technology that is becoming a trend is mobile technology, especially for Android mobile devices. The mobile library (m-library) is able to enhance sophisticated technology by the library system especially the college library using the latest technology based on communication devices such as smartphones and other technology devices that are able to attract the attention of library users, especially millennials who mostly use smartphone communication tools using the m-library application. UMSU Library is the first university library in North Sumatra that has implemented an Android-based m-library application. UMSU Library has been implementing this android-based m-library application service for 1 year by utilizing the internet as a medium of information dissemination (dissemination) in accessing information (digital library) wherever and whenever.

### Higher education library

Higher education library is a type of library that serves users, especially the academic community by providing library materials and information needed by users, which are essentially an integral part of a college that aims to help the achievement of higher education goals. The library is held aiming to support the implementation of higher education programs in accordance with the Tri Dharma of Higher Education, namely education and teaching, research and community service. In Law No. 43 of 2007 concerning libraries, university libraries state that:

(1) Each tertiary institution organizes libraries that fulfill library national standards with due regard to National Standards Education.

(2) The library referred to in paragraph (1) has a collection, both the number of titles and the number of copies, which is sufficient to support implementation of education, research and community service.

(3) Higher education libraries develop library-based services information and communication technology.

(4) Each tertiary institution allocates funds for development library in accordance with statutory regulations to comply national education standards and national library standards. According to Yuyen (2010), there are several functions of Higher Education Libraries, namely as follows :

1. Studying Center, meaning that the library is a learning center, meaning that it can be used to support learning (getting information in accordance with the needs in education).

2. Learning Center, meaning that it functions as a learning center (not just learning), meaning that the existence of a library is functioned as a place to support the learning and teaching process. (Law No. 2 of 1989 Ps. 35: Libraries must exist in every education unit which is a source of learning).

3. Research Center, this is intended that the library can be used as an information center to obtain material or data or information to support in conducting research.

4. Information Resources Center, which means that through the library all kinds and types of information can be obtained because of its function as a source of information.

5. Preservation of Knowledge Center, that the function of the library is also as a center for the preservation of knowledge as the work and writing of the nation which is stored either as a collection of deposits, local content or gray literature

6. Dissemination of Information Center, that library functions not only collect, process, serve or preserve but also function in disseminating or promoting information.

7. Dissemination of Knowledge Center, that in addition to disseminating library information also serves to disseminate knowledge (especially for new knowledge).

## **2.0 Digital Library**

Digital libraries according to the Digital Library Federation cited by Hasugian (2009) state that: Digital Libraries are various organizations that provide resources, including specially trained employees, to select, manage, offer access, understand, disseminate, maintain integrity, and ensure the integrity of digital works in such a way that collections are available and economically affordable by a community or group who need it. Meanwhile, according to Rahman (2010) Digital Library is a library that manages all or part of the substance of its collections in the form of computerization as an alternative form, supplement or supplement to conventional printing in the form of micro material which is currently dominated by library collections. Thus a digital library is an organization that provides resources and expert staff to select, arrange, provide access, translate, disseminate, maintain unity and maintain the continuity of collections in digital format so that it is always available and inexpensive for use by certain communities. According to Arms, cited by Achmad (2010) regarding The benefits of a digital library are as follows:

1. Digital libraries bring libraries to users.
2. Computers can be used to browse and access information
3. The information can be used together (resource sharing)
4. The information is easy to update (up to date).
5. Information is always available all day, all time, all life.
6. Allows new forms of information.

According to Rahman (2010) the advantages of digital libraries are

1. Save space
2. Multiple access
3. Not limited by space and time,
4. Collections can be in the form of multimedia
5. Lower cost.

### **Mobile – Library**

At first we often heard that the mobile library is identical to the bookmobile. Along with the development of ICT and the number of users who use mobile, the term mobile can also be interpreted by cellular telephone (mobile). Because of the rapid development of cell phone functions that were only for telephone and SMS, then developed equipped with camera facilities, then can be for internet access and so on. Mobile can be interpreted as moving or can be moved freely and easily. And can also be interpreted an object that is high-tech and can move without using cables, such as smartphones, PDAs, tablets. Transformation or structural changes can be related to: users, services, ICT facilities, Human Resources/librarians, as well as functions & added value. In relation to the m-library, it will become a necessity for libraries to pay attention to the presence of mobile technology to improve library services. This is because users prefer to use the internet for direct access through various internet connections. Moreover, applications on mobile devices are increasingly sophisticated and much-loved by users. Gadget devices such as: BB, iPhone and Android have become the needs of users in the current era.

### **The concept of a mobile device**

According to Fatmawati (2012), mobile library comes from the word mobile devices abbreviated as M which means cellphones and Library / Libraries which means libraries.



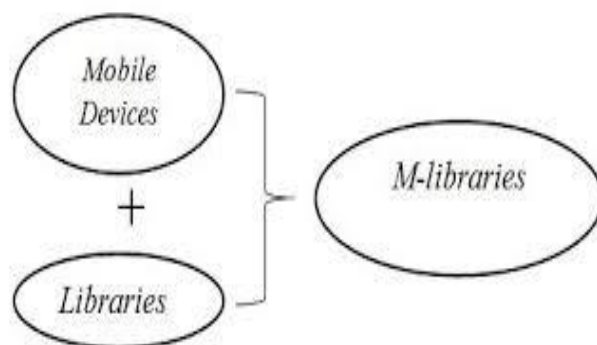


Figure 1 The concept of M-Library / M-Libraries .

Some of the scope of the concept of m-libraries according to Surachman (2011) are:

1. Access library contents or collections via mobile devices to access e-books, e-journals, e-databases and other special collections that are mobile.
2. The library sends short messages using SMS to answer questions and provide information to users.
3. Build a mobile interface for web systems and library catalogs
4. Use QRcodes to connect electronic collections that can be accessed through mobile devices.
5. Library staff or librarians use mobile devices in the library to support library questions.
6. Building a mobile-based application (Dedicated mobile app) to provide users with access to library collections or contents.
7. Utilization of augmented reality (AR) in a library by using a camera on a mobile device.
8. Use mobile devices to interact with library activities such as extending collection loans, checking service locations, ordering collections, performing tasks through mobile devices.

### **Types of Mobile Library Technology**

According to Surachman (2011), there are 3 types of mobile technology platforms that are utilized in building m-libraries.

#### **1. Mobile Phones Standard Platform**

Platform that implements the use of standard features and technologies available on mobile device technologies such as SMS and telephone calls.

#### **2. Mobile Web Version Platform**

The library builds a mobile-based web that can be accessed by mobile users to obtain information available on the library.

#### **3. Mobile Apps Platform**

The development of the operating system on mobile phones led to the emergence of various mobile apps in accordance with the operating system. Because of this, several institutions or institutions developed a library application system to make it easy for users to use library materials owned by the library.

Mobile Apps allows mobile device users to install or setup special m-libraries in their devices so they can access the facilities that are in them.

The three platforms above have their own advantages and disadvantages, the choice of platform used depends on the library user and the library's ability to provide that platform.

### **3.0 UMSU Digital Library Application**

One of the University Libraries that has developed technology that is still rarely done by other libraries is the Muhammadiyah University Library of North Sumatra (UMSU). UMSU Digital Library was launched since April 2018, this application is provided for android users which can be downloaded for free at the Google Play Store. This service can be used in general throughout Indonesia, by registering as a member and sending biodata through the UMSU Digital library application. Furthermore, users can access various e-books that can be read and get the references they need.

Features available on Digital Libraries UMSU

1. Can access thousands of books easily
2. e-pustaka, a superior feature of the UMSU digital library where users can visit frequently read books. So that it helps users in finding books that have not yet been read.
3. e-Paper, UMSU's digital library provides e-Paper features on each book. So users can read through smartphones at any time.
4. Copy menu, on each book that is read can be copied by means of the desired sentence block.

### **Technology Acceptance Model (TAM)**

Acceptance Model Technology is a model of acceptance of information technology systems used by users. The technology acceptance model was developed by Davis. There are two main constructs of individual acceptance in information technology systems based on the Technology Acceptance Model, namely perceived usefulness and behavioral intention. If the technology system is useful and easy to use, then technology users will have an interest in using the technology (Jogiyanyo, 2007).

There are five constructs in the acceptance model technology, which are as follows :

1. Perceived Usefulness  
perceived usefulness is a belief about the decision making process in using a technology that will help its performance
2. Perceived ease of use  
Someone believes that using a technology will be free of effort.
3. Attitude towards behavior  
Positive or negative feelings about the use of technology so that it can be used as an evaluation of technology users.
4. Behavioral Intention  
Interest in technology user behavior in helping its performance.
5. Behavior  
Perception of the use of technology, by users of information technology systems and the use of such technology.

### **4.0 Methodology**

The research method used is descriptive qualitative. The study was conducted at the Library of the University of Muhammadiyah North Sumatra and in several places at the University of Muhammadiyah North Sumatra with a total of 10 respondents.

## 5.0 Results And Discussion

Based on the results of in-depth interviews with informants and the data analysis process, there are several categories related to the Technology Acceptance Model (TAM), whether UMSU digital library applications are accepted by users :

1. Perceived Usefulness  
The use of the UMSU digital library application is requested by many users to register as members, both from UMSU academic community members and UMSU non-academic community members. The enthusiasm for using the UMSU Digital library application is very high.
2. Perceived Ease of Use  
The ease of using the UMSU digital library application is felt by users in the form of effective access so that users do not have to come directly to the library but can directly access the application online.
3. Attitude Towards Behavior  
The attitude of users of UMSU digital library applications from both academics and non-academics UMSU gives a positive attitude because of the advantages they get from the UMSU digital library.
4. Behavioral Intention  
User interest in using the UMSU digital library application is very high. That is because the e-book collection owned by UMSU's digital library is mostly the latest issue so that users get up to date reference sources.
5. Actual Technology Use  
The time period for using the UMSU digital library application can be seen through the system managed by the UMSU library. The system can find out who are the most active users in utilizing collections of library materials and most often access library materials at UMSU digital libraries.

## 6.0 Conclusions

Based on this research, it can be concluded that the UMSU digital library makes it easy for its users by utilizing applications due to the availability of e-book collections that can provide up to date reference sources. the availability of features that can facilitate users in finding the desired book topic. UMSU digital library information system that can provide an overview of the time period of using digital library applications and also the most active users in using collections in UMSU digital library applications.

However, some users give advice to the UMSU library in order to improve digital library applications to be better in terms of their use such as the addition of collections so that more variations in titles and also socialization and promotion in utilizing digital library applications effectively.

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Universiti Teknologi MARA  
40450 Shah Alam  
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