E-library Implementation in Library University of Riau

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Abstract This research aims to see how the e-book implementation in Library University of Riau and the obstacle in its implementation. In the Globalization era, digital libraries should be developed or else it will decrease the readers’ interest, with the recent advanced technology, digital libraries are one of the learning tools that can be used to finding an information through the internet access, hence digital libraries or commonly known as E-Library is really helping the students and academic community in finding information. The methods that used in this research is Observation, Interview, and Literature Study. The respondents in this research are the staff who involved in the process of digitization in Library University of Riau. The result of this research shows that implementation of e-library in Library University of Riau is already filled the user needs for now, although there is obstacle faced just like technical problems for example the internet connection speed and the technical problem to convert the format from Microsoft Word .doc to Adobe .pdf

Keyword: Digital libraries, E-library, Library University of Riau.

1. Introduction
1.1 Background
History, so that library has an important role. The recent technological development caused every institution ying to create the digital libraries (e-library). Digital libraries or E-Library using the recent information technology that connected to the internet, so that for those who want to read are able to do so through internet connected devices such as computer. The existence of E-library should be utilized because it could save and make the readers time more efficient because the reader itself don’t need to physically be in the library, the reader could find article, journal, scientific works, and books through the internet connected devices.

1.2 Research Purposes:
- Knowing the Process in the Digital libraries
• Knowing the Obstacle in Implementing the E-library.

1.3 Benefits or Research:
• Provide convenience for individuals who need information
• Describe the Advantages of using E-Library

1.4 Formulation of the Problems
• How to implement E-Library in the Library University of Riau
• The obstacle in its implementation

2. Literature Review

2.1 Definition of Library

According to the Library regulation in Indonesia (the law of the Republic of Indonesia number 43 year 2007) is explained that Library is institution who manage the collection of Papers, Printed works and/or Recorded Works professionally with Standard System to meet educational and research needs, preservation, information, and recreation site for the readers. According to Sulistyo-Basuki (Basuki, 1991) Library is a room or a building that can be used to store the books or other publications that arranged in particular arrangement to use by the readers, and not for sale. So, the conclusion is Library the place for storing the books and papers professionally to help the readers to get the information they need and not for sale.

2.2 Definition of Library Digital

According to Digital Libraries Federation, digital libraries has most of the collection in digital format and can be accessed through computer. The conclusion, digital libraries is the process of replacing printed libraries into digital libraries by converting written works into digital format or files that saved in the one of organization’s database. Changes of Paradigm from Traditional Library to Digital libraries. When the development of library services (traditional) to the digital libraries (e-library), there will be a paradigm (Ishak, Dec. 2008).

Basically, every article that typed with the computer is the article that can be use to pusdokinfo. But the file that still in editable format such as Microsoft word’s doc, or pagemaker pmg could be changed by certain parties, as a result the authenticity of the file itself is might be not valid. Therefore, the file need to be converted to secure format so that it is impossible to certain parties to change the content of the file. The most standard format for digital libraries implementation until today is still Adobe Acrobat PDF format (Februariyanti & Zuliarso, Juli 2012).

Sucaryl dan Ruldeviyani (Sucaryl & Ruldeviyani, 2007) said that there are three main elements that are needed in the development of information systems, Hardware, Software and Brainware (Human). The explanation for the hardware are:
• Central Web Server that provide web page request from the internet users.
• Database server, is the central of digital libraries, it means database server is the place where the collections of the digital libraries stored.
• FTP Server, provide a process where the users in Digital libraries are sending and receiving the file through the internet network
• Mail server, where the digital libraries providing every service related to e-mail
• Printer Server, where the printer is providing every service related to printing and managing the printing process
• Proxy server, is used to secure the digital libraries network
  With the existence of digital libraries, users can be conveniently finding the needed information. There are many convenient in digital libraries:
• Real time access, with the existence of digital libraries the user can access the library without physically going to the library, anywhere, anytime.
• Cost Effective, books digitalization or documents is much cheaper than buying new book or documents.
• Security, in digital libraries its easier to preventing duplication or plagiarism.
  For Example: The PDF document format cannot be edited, the users only able to read it without editing the content
• Works Publication Globally, with the internet, every paper could be published globally with the efficient cost and time

2.3 Research methods and data collection
  • Observation
    According to Nasution (Sugiono : 2008 : 64) stated that observation is the basic of all knowledge, the researches is only using the valid data from observation.
  • Interview
    Interview is a meeting between two people to exchange information and idea through questions and answer process, so that it able to constructing the meaning of particular topic (Sugiyono, 2008 : 231)
  • Literature Study
    This research using many supporting information according to library study methods that collected from many source, such as collecting data and information from related books, online journal that related to E-Library topic.

According to collected information from many sources, it able to create discussion about E-Library implementation in Library University of Riau. E-Library discussion’s conclusion will be made for the further development

3. Discussion

The library of the University of Riau was established in 1962 together with the establishment of the University of Riau. The University itself still owned by Yayasan Universitas Riau and only occupy 100 square meters. In 1980 the Library of University of Riau only has a 500 square meter building, located in the old campus location in Jalan Patimura Nomor 9 Kota Pekanbaru. Since 1992 the Library of University of Riau was moved to a new campus at Kampus Bina Widyatama Jalan HR Soebrantas KM 12.5 Simpang Baru, Pekanbaru in line with the transfer of Rectorate office and some faculties. The Library of UR (University of Riau) has a building of four units each consisting of two floors with a total area of 4,000 square meters with a capacity of 250 seats, built on an area of 2 Ha.

The library currently serves more than 27,500 students, 1,400 lecturers and 654 employees. The Library of The University of Riau stores over 132,000 titles or 365,000 copies of the library collection, with an annual increase of about 8,500 copies. In addition the Library of University of Riau has an electronic collection consisting of journals and materials collection of local content. The number of e-journals subscribed to more than 5,000 titles in various disciplines is required primarily by the UR academic
community. Both types of electronic journals collection can be accessed through www network: lib.unri.ac.id and www: ur-lib.com.

The Library of UR has been using the library automation system for two years using the SlIMS Cendana program and its services have been developed complement of the SlIMS program development, self-service application that has been applied for lending transactions, extension and return of books in an effort to improve the service. Application of this Self Service application since 30 August 2013.

The Library of UR gets the best in library accreditation in 2013, which is "A". The result of the Library UR accreditation assessment by National Library Assessors Team from 17 September to 18 December 2013 contained in Accreditation Certificate of National Library of Indonesia Number 19/1/ee/XII.2013

3.1 Implementation of E-Library in Library University of Riau

The form of digital libraries is closely related to the service availability. The activities in the manager’s computer are Database creation, data entry, and electronic catalog and others activities to support the library administration. Whereas the activities in the user’s computer is to provide the search services, and the activities to move the result of search activities. To Support the digital libraries there are many alternative such as:

- Files stored in the hard disk
- Every digital file can be stored in the hard disk, the consequences is the hard drive should have larger storage
- Every file in hard disk is linked to the database
- Standalone computer, or the computer who doesn’t connected to the network, the users could just read the full article context from the database with only clicking to the full text icon
- File stored in the CD-ROM
- Every digital file can be stored in the CD-ROM,
- Every digital file can be stored in the CD-ROM, the consequences is there must be a field in the database or particular information stated that the particular article is stored in the CD-ROM with the particular number
- Standalone computer, or the computer who doesn’t connected to the network, the users could just read the full article context from the database with only clicking to the full text icon
- Digital File Stored in the Database
- Every digital file stored in the sever hard disk.
- Every saved file in the hard disk linked to the database
- The computer must be connected to LAN (Local Area Network), so that there must be server and terminal computer

There are many processes that could be done, therefore in digitalization planning beside of identifying the collections type, it is also necessary to identify the existence of publication material. Whether particular publication is available in particular format such as Microsoft Word Format (.doc), pagemaker (.pmg) or any other formats. The Hardware that needed in addition to digitalization process are:

- Processing Computer.
- CD-ROM.
- CD writer drive.
- CD reader drive.
Digitalization could be done with 2 steps:

- Scanning the printed document and convert it to PDF File
- Transforming the editable documents to PDF file

According Allen and Retzlaff that Libraries are threatened because, in social terms, the internet might seem to render them less relevant. At the same time, the technologies of information brought to life in the internet make libraries so much more extensive that their relevance has never seemed more obvious.

According to the Library regulation in Indonesia (The law of the Republic of Indonesia number 43 year 2007) is explained that Library is institution who manage the collection of Papers, Printed works and/or Recorded Works professionally with Standard System to meet educational and research needs, preservation, information, and recreation site for the readers. Digital libraries or e-libraries providing service processes and manage their data using existing technologies. Broadly speaking, digital libraries indicate that generally owned collection of digital data and is accompanied by technology or certain features that will facilitate library visitors to find the data.

So far, digital libraries have grown rapidly, almost every local libraries and libraries owned by certain institutions such as the University have implemented the concept of e-library. One good example of implementing an e-library system is the University of Riau.

4. Obstacle in Implementing Digital Libraries

According to the Interview with Mr Firdaus Syam, Librarian who manage the digitalization of Thesis stated that the obstacle that commonly faced is Processing Time, where one thesis took a long time to convert Microsoft Word Format to PDF Format and giving the watermark, also there are CD’s that cannot be opened (Interview on March 7th 2017). This statement also strengthened by Mrs. Head IT Service officer Mrs. Evi stated that the obstacle that usually faced is only Technical problem such as the Network Problem or the Processing time to convert Microsoft Word file to PDF (Interview on March 14th 2017).

The obstacle that common happened in digitalization processes are:

- The availability of the cost, the cost in building the technology infrastructure is high
- Copyrights problem, not every author allows their work to be digitalized, of course there are many author will be questioning about the compensation of their works
- The community who doesn’t really know with technology, the technology development is really high in metropolitan area, however in the rural place people is not so familiar with computer and electronic devices, still there are many people in the rural place who does not know how to operate a computer.

5. Collection of E-Library in Library Technical Implementation Unit Of University Of Riau

- Article
  Articles are complete factual articles of a certain length made for publication (through newspapers, magazines, newsletters, etc.) and aim at conveying ideas and facts that can convince, educate, and entertain readers.

- Journal
  Journals are articles published periodically, an article commonly researched by colleagues.

- Papers
  Where it is commonly used to illustrate, a scientific paper written for the completion of Associate Degree

- Skripsi (Scriptie)
Originally from Dutch Language, Scriptie is a commonly used word by Indonesian higher institution for Undergraduate. Which is usually used to illustrate a scientific paper written for thesis.

- Thesis
  Thesis is scientific works to complete After Graduate degree.

- Dissertation
  Thesis is scientific works to complete Doctoral degree.

6. Conclusion
Based on the discussion above, it can be concluded that:
Implementation of E-Learning in the Library in Library University of Riau has not achieved maximum results in the implementation because there are still technical obstacles such as the problem of network connection. Application of E-Library, Library University of Riau has many positive impact, so E-Library is already feasible to be used by the public. Initially the library applied at the University of Riau is only used by students of the University of Riau, but after the implementation of this E-Library, Library University of Riau can be famous in the community because it provides many online papers.

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