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3rd ICETD 2014

28, 29 October 2014, Bandar Lampung, Indonesia

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Bandar Lampung University, Indonesia

In coorporation with :

THE UNIVERSITY OF KITAKYUSHU

3rd ICETD 2014

The Third International Conference On Engineering And Technology Development

28 -29 October2014
Bandar Lampung University (UBL)
Lampung, Indonesia

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Bandar Lampung University (UBL)
Jl. Zainal Abidin Pagar Alam No.26 Labuhan Ratu, Bandar Lampung, Indonesia
Phone: +62 721 36 666 25, Fax: +62 721 701 467
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PREFACE

The Activities of the International Conference is in line and very appropriate with the vision and mission of Bandar Lampung University (UBL) to promote training and education as well as research in these areas.

On behalf of the Second International Conference on Engineering and Technology Development (3rd ICETD 2014) organizing committee, we are very pleased with the very good response especially from the keynote speaker and from the participans. It is noteworthy to point out that about 80 technical papers were received for this conference.

The participants of the conference come from many well known universities, among others : University Kebangsaan Malaysia – Malaysia, IEEE – Indonesia, Institut Teknologi sepuluh November – Indonesia, Surya Institute – Indonesia, International Islamic University – Malaysia, STMIK Mitra Lampung – lampung, Bandung Institut of Technology – Bandung, Lecture of The Malahayati University, B2TP – BPPT Researcher – lampung, University of Kitakyushu – Japan, Gadjah Mada University – Indonesia, Universitas Malahayati – Lampung, Lampung University – lampung,

I would like to express my deepest gratitude to the International Advisory Board members, sponsor and also to all keynote speakers and all participants. I am also gratefull to all organizing committee and all of the reviewers who contribute to the high standard of the conference. Also I would like to express my deepest gratitude to the Rector of Bandar Lampung University (UBL) who give us endless support to these activities, so that the conference can be administrated on time

Bandar Lampung, 22 October 2014

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E-Archive : Digital storage Media

Arnes Yuli Vandika[1], Ade Kurniawan[2], Ari Kurniawan Saputra[3]

Computer Science Faculty, Bandar Lampung University
Bandar Lampung Indonesia

[1]arnes@ubl.ac.id, [2]ade.13421026@student.ubl.ac.id, [3]ari.12421013@student.ubl.ac.id

Abstract - In the digital age that is increasingly sophisticated, that have an impact on all aspects of our daily lives, one of them is on the filing system on the experience the more effective and efficient, which previously used the closet as storage media, we can now utilize electronics as the storage media archives. Application of the method of filing electronically in an institution is required to support the activities of archiving that achieved effectiveness and efficiency in the management, as well as being able to secure the archives that have important information or value for its users. In the implementation of an electronic archive, type of media used all kinds such as E-mail, DVD 's, microfilm and other electronic media. To support the activities of the application required a good infrastructure and facilities for monitoring and maintenance so that the planned goals are achieved. It also needed a system that is appropriate for the application that is executed is supported by personnel competent in the field of archiving, as well as having the skills and capabilities that support the implementation of electronic filing.

Keywords **electronic archive , Archive.**

I. INTRODUCTION

At first the development of modern technology in the world, it's been known since several centuries ago when the first generation of computers found by a mathematician from the United Kingdom, Charles Babbage, then very large-sized computer and function only for counting. As time went on the developed the computer so that the next generations are created by having different shapes and specifications at the start of the second generation with a smaller size, less electrical power and has more functionality than the first generation, so too is the third generation and beyond is constantly evolving from previous generations. These developments feel has a major influence on other aspects like a filing system, if we are talking about the development of archiving system from the current level of their effectiveness was quite good, especially in terms of the use of the media to store archives, used to be a closet used as a medium for storage of archives, of course this will complicate us to search the archives at a time when we need it other than that it is also influential in the archive it self, archives will be easily damaged due to the age of the old storage media is not appropriate, as time goes by can take advantage of the technology as a medium for storage of archives that we know with electronic Archive.

II. THEORY

i. Introduction to Archive

A. According to UU No. 7 in 1971 about the provisions – provisions subject matter section Chapter I article 1, archives are:
   1. The script is created and accepted by the State institutions and bodies –government agencies in any good figures in a single State or a group in order to conduct Government activity.
   2. The script is created and accepted by the Agency and private agencies or individuals, in the form of any good in Mannerism, single or in groups in the framework of the implementation of the national life.

B. T. R. Schellenberg (The Liang Gie, 1979, 217) "The term archives‟ may now be defined as follow : "Those records of any public or private institution which adjudged worthy of permanent preservation for reference and research purpose and which have been deposited or have been selected for deposit in on archival institution".

C. Massive Indonesian Language Dictionary (KBBI) archive is a document written (letter, certificate, etc.), oral (speeches, lectures, etc.), or pictorial (pictures, movies, etc.) Dr. time's past, stowed dl media write (paper), electronics (tape, computer disk, videotape, etc.), usually issued by official agencies, stored and maintained in a special place for reference.

ii. Electronic Definition

Prof. Dr. Jumadi, M.Pd(2013) Defines several definitions from experts who can give you insight into electronics, as follows:

1. Fitrzgerald, Higginbotham and Grabel

"Electronics is the branch of Electronical Engineering which deals extensively with the transfer of information by means of electromagnetic energy".

2. J. Millman
   "Electronics is the science and the technology of the passage of charged particles in a gas, in a vaccum, or in a semiconductor".
3. E. Carol Young
   "The study, design, and use of devices that depend on the conduction of electricity through a vaccum, gas, or semiconductor".
4. H.C. Yohannes
   Electronics is the science that studies the properties and usage of devices ("devices" =tool) that is the basis of his work is the electron flow in a vacuum or gas (as in radio tubes) and a flow of electrons in the semi conductor (such as in transistors). From these definitions in fact studied Electronics control the movement of particles and the application of charge carriers (electrons) in a vacuum, gas or semi conductors.

iii. Electronic Archive Definition

Based on the source of the above we can conclude about Electronic Archive definition, that the electronic archive is a document written (letter, certificate, etc.), oral (speeches, lectures, etc.), or pictorial(pictures, movies, etc.) from the time a past, which is stored via electronic media (tape,videotape, computer, email etc.).

iv. Benefits And Weakness Of Electronic Archives

A. Benefits

Daryono(2013) explain that the archival storage of electronically obtain some profits and efficiency, when compared to conventionally archive storage system. As for the advantages of electronic archival storage were:

1. **Investment in the form of space-saving archives**
   As we learn together, growing an archive, it will require more storage space as well. This can be overcome by means of archive storage system with transfer of conventional archive media into electronic media archive.

2. **Investment Savings in the form of paper, printing ink (printer & copy)**
   The main advantages of electronic-based systems is its spread are electronic, no longer need paper and ink, and it is enough to copy on a disk or other media, although at any given moment paper still is needed.

3. **The Efficiency of access time**
   Archiving accounting method would be very difficult to find a file contained in the archival space, it is effected by the placement, the system archives are often borrowed, and usually are not returned in its place, as well as unstructured storage, unlike the electronic archive, a structured storage system facilitates the appointment back archive is as easy as filling the code archive, as well as when we are searching a document on your computer.

4. **Human Resources-Saving**
   In the conventional course of many archive system involving archival officer to manage and serve the needs the archives, and it does not guarantee the speed and accuracy in the system archive search. In contrast to electronic archives, of course can be done HR needs emphasis, in addition to the appointment system information back does not have to involve a lot of resources, but access to information can be done quickly.

5. **minimize the possibility of data destruction**

   With our electronic archive will be easy to do Back-up data, so we'll have a backup of the archives critical owned. This is to prevent the destruction of archives that are caused by disasters such as floods and fires.

B. Weakness

1. the existence of opportunities for manipulating files (create, save, modify, or delete)in all ways;
2. the difficulties for various file because the file format or the availability of the network or access to share files with others;
3. possibility of destruction of files at any time without any prior indication of a server, for example, stricken with encephalitis or the vanishing of data permanently because it unintentionally.

v. Media of E-Archive

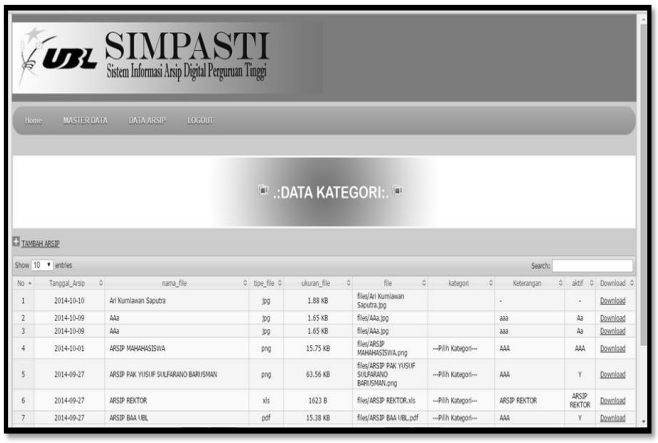
One of the media that we can make use of electronic-based archives to save as:

1. **Google Drive**

Naufal Assagaf (2012) explains the Google cloud storage Drive is a service from Google which was launched in late April 2012, namely services to store files on the internet on the storage provided by the Google. By saving the file in Google Drive then the owner of the file can access that file at any time anywhere by using a desktop computer, a laptop, a tablet computer or smartphone. And the file can be shared with others for sharing and collaboration also edditing. The capacity provided by google is a free service to drive 5 GB capacity, to use more of it then it will incur additional charges.

Google Account Login (Source http://google.com/)

Google Driver (source http://cyberinfo.web.id/)



2. Application

We can also make an application as a storage medium, such as a Digital Information System for higher education(Simpasti) . SIMPASTI is a system for archiving the digital's Collage of Bandar Lampung University, in working process on this application could use the storage server that can store millions of records of data.

Source : Simpasti UBL

III. CONCLUSION

Such a glimpse of an electronic archive of the explanation, with an increasingly technological advances allow us to be active in the expected positive impacts towards capable of carrying larger especially in the field of archiving. To support the activities of the application required a good infrastructure and facilities for monitoring and maintenance so that the planned goals are achieved. It also needed a system that is appropriate for the application that is executed is supported by personnel competent in the field of archiving, as well as having the skills and capabilities that support the implementation of electronic filing.

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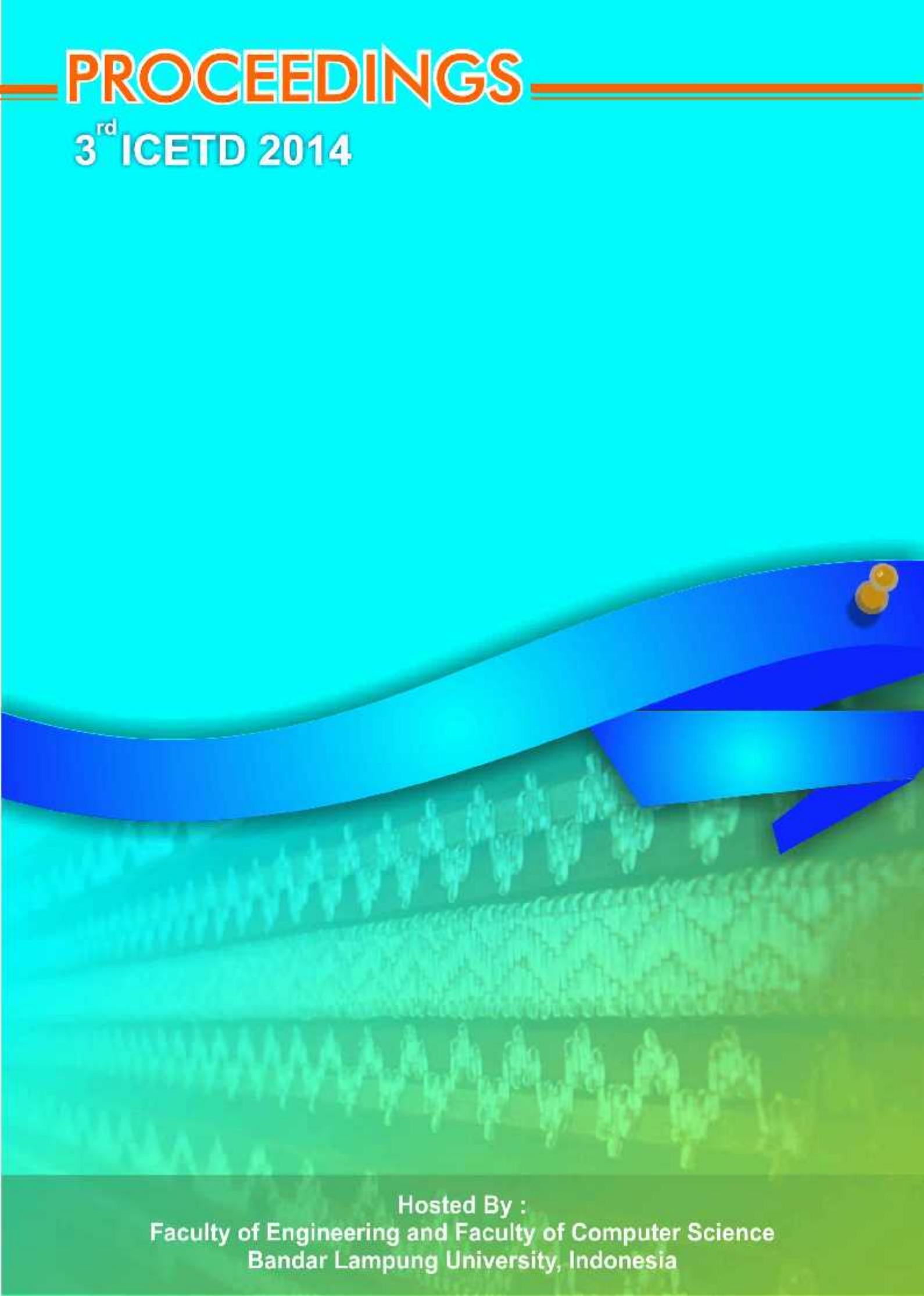

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