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PROCEEDINGS

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Technology, Education, and Science International Conference

November 20-21, 2013

"Developing Innovative Technology towards Better Human Life"

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Managing Scientific Journals Online

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Abstract

Management of scientific journals in Universitas Bina Darma so far not been computerized. Article submissions from writers still manually or via email. Thus causing the management of scientific journals has not been carried out to the fullest. Analysis and design methodology used is a structured methodology using the tools of data flow diagrams and entity relationship diagrams. Scientific journal management process starts from authors submitting articles to the article uploaded. Results from this study is a scientific journal management website. This study aims to make the management of scientific journals using structured methods.

Keywords: Scientific juornals, Website, Data Flow Diagram dan Entity Relatinship Diagram.

1. Introduction

Tri Dharma of colleges are teaching, research and community service. Faculty research results can be published periodically with faculty to submit articles in scientific journals. Scientific journals is one forum for faculty to publish research results in the form of articles. Journals are periodicals shaped glow pamphlet contains material that is in demand the time of publication. When associated with scientific words behind the journal can be published periodically in the form of pamphlets meant that contains scientific material that is in high demand as the published [1].

Management journals in the university Bina Darma has not been computerized. Article sent writer is still done manually, where the article came from the author is given through a flash media discs and email. Then the article is sent to the chairman of the editor and chief editor of the article is to be split edited by executive editor. Editing activities sometimes require very long time , in which the executive editor in direct contact with the writer if there is an article that needs to be edited. Editing process is inefficient. After the event the final editing process is carried out for the soon to be published in scientific journals..

Based on the above, it would require an application for managing scientific journals in the university Bina Darma. Analysis and design methodology used in this research is to use structured methods. This methodological tool uses data flow diagrams and entity relationship diagrams.

As the article from [2] entitled WEB Application Management Journal aims to help create software for the management of web-based journal, a case study in the Journal of Technology Academia ISTA as evidence of management example. The method used is a software engineering model for the management of web-based journal.

So also with the study entitled Access to and Utilization of Scientific Journal Database [3]. The purpose of this study is how to access and use of online electronic journals are expected to facilitate access journals from work without having to perpustakaan. Research makes a study on access and utilization of data with a data base for access to scientific journals.

2. Reseach Methodology

Tri Dharma of colleges are teaching, research and community service. Faculty research results can be published periodically with faculty to submit articles in scientific journals . Scientific journals is one forum for faculty to publish research results in the form of articles. Journals are periodicals shaped glow pamphlet contains material that is in demand the time of publication. When associated with scientific words behind the journal can be published periodically in the form of pamphlets meant that contains scientific material that is in high demand as the published [1].

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Scientific Journal of Integrated Units (JIT) which is part of the research institute. Development of a prototype system using. Prototype development process begins with collecting user requirements (interviews with users), build and control systems to be created . These stages can be carried out continuously until the system is in conformity with the wishes of the user. The stage can be seen in Figure 1 [4] .

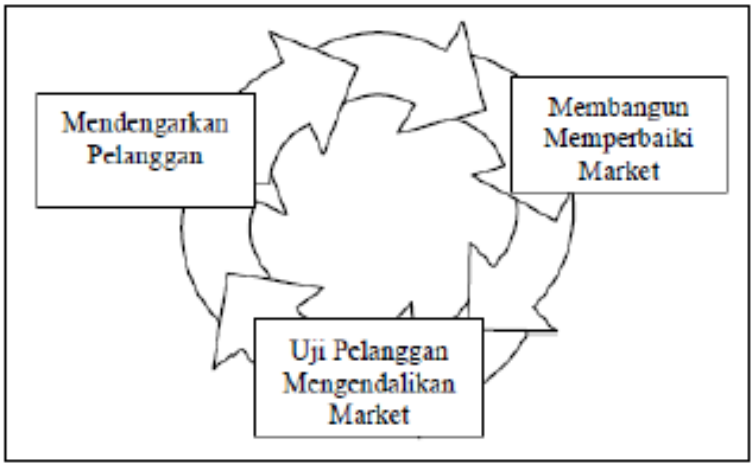


Figure 1. Workflow of Prototyping

Method of approach used in this study is a structured approach. This approach looks at the problems faced olek JIT unit so as to provide solutions and desired outcomes can be maintained, satisfying the users are well-documented, timely, and quality can be improved . According Jogiyanto [5] This approach starts from the early 1970s called the structured approach (structured approach). Structured approach equipped with the tools (tools) and techniques (techniques) are needed in the development of the system, so that the end result of a system that will get the system developed a well defined structure and clear. Tools used using a data flow diagram and entity relationship diagram.

2.1 Analysis System

During the management of the journal is done in a conventional manner. Anyone who would like to publish the results of scientific work should be sent to the JIT manager for publication, which is also the first stage of JIT management. Writers fill out the registration form. Article submission process to managing JIT for this through paper media, CD, flash disc or e-mail. This article has not integrated delivery, as it is still done through a variety of media. One of the obstacles faced occasional data loss article from the writer.

JIT manager will then edit articles that are tailored to the format of writing articles. If it does not match the format of the article will be returned to the author. Acceptance of the article re-writer sometimes takes time that can not be predicted, even a writer who does not send back the results of edited. Then if the article has been restored or edited at the time there was no problem with the format of the writing process will lead to the next stage .

Is JIT will submit articles that are in accordance with the format of the journal to the Chief Editor. In the fourth stage of the Chairman Editor will manage the distribution of articles to be given to the Executive Editor. Then Managing Editor will edit the content of the article in accordance with their respective areas of expertise. Time required by Executive Editor also sometimes ranging from 3 days to 3 months .

Edits from Managing Editor to your keserahkan JIT . Then the manager will arrange JIT accordance with article publishing formats. Is JIT also will collect a number of articles that

correspond to each issue of the journal. Each journal contains contains 7 articles per issue. For journals MATRIK and MBIA in 1 year consists of 3 edition. To TEKNO, INOVASI, BINA EDUKASI, BINA BAHASA, PSYCE , and BINA MANAJEMEN in 1 year consists of 2 editions .

If the number of articles do not meet the target number of articles of each issue at the time of issue , then the business will send a letter to the Chancellor (1 cc to the Vice-Chancellor , Vice Chancellor and Dean 2) to report that the journal has not published as scheduled due to lack article. Then Dean will gather a number of articles matching with the number of each edition. If Dean can not collect a number of articles, the Dean will make an official letter to the business that a number of articles in question can not be collected. JIT will make your later letter to the Vice-Chancellor of the Dean of the 2 can not collect the article number .

If the number of articles are in accordance with a number of articles from each issue, then the next stage JIT will process the publishing business. Publishers publishing process conducted by Bina Darma University Press. When you have finished printing the JIT will inform your writer that the articles they submit are ready taken. For authors who are from Universitas Bina Darma, Authors must upload their paper in the Journal to blog Universitas Bina Darma (UBD).

2.2 Design

Based on the analysis of the system running on top, then made the design of the system. The first design of the system is to create a data flow diagram. Data flow diagram (DFD) in this study consisted of a context diagram and level 0 DFD. Context diagram is shown in Figure 2.

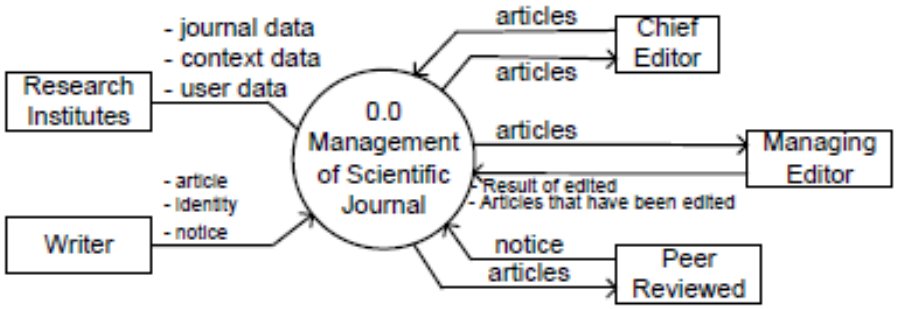


Figure 2. Context Diagram

Once created the context diagram, then the next step is to create a level 0 DFD. Can be seen in figure 4 .

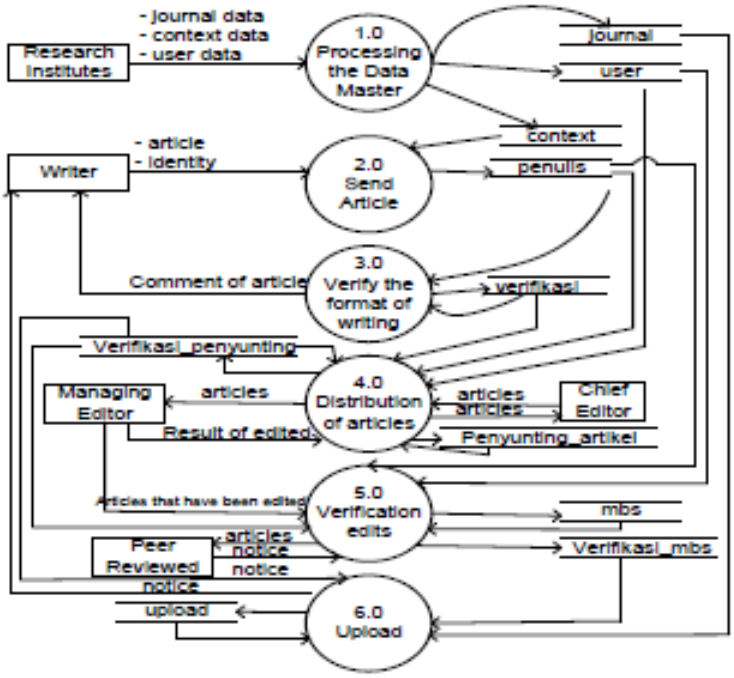


Figure 3. Data Flow Diagram level 0

Having made Data Flow Diagram, then the next step is to create an Entity Relationship Diagram (ERD). ERD is made based on the results of the DFD.

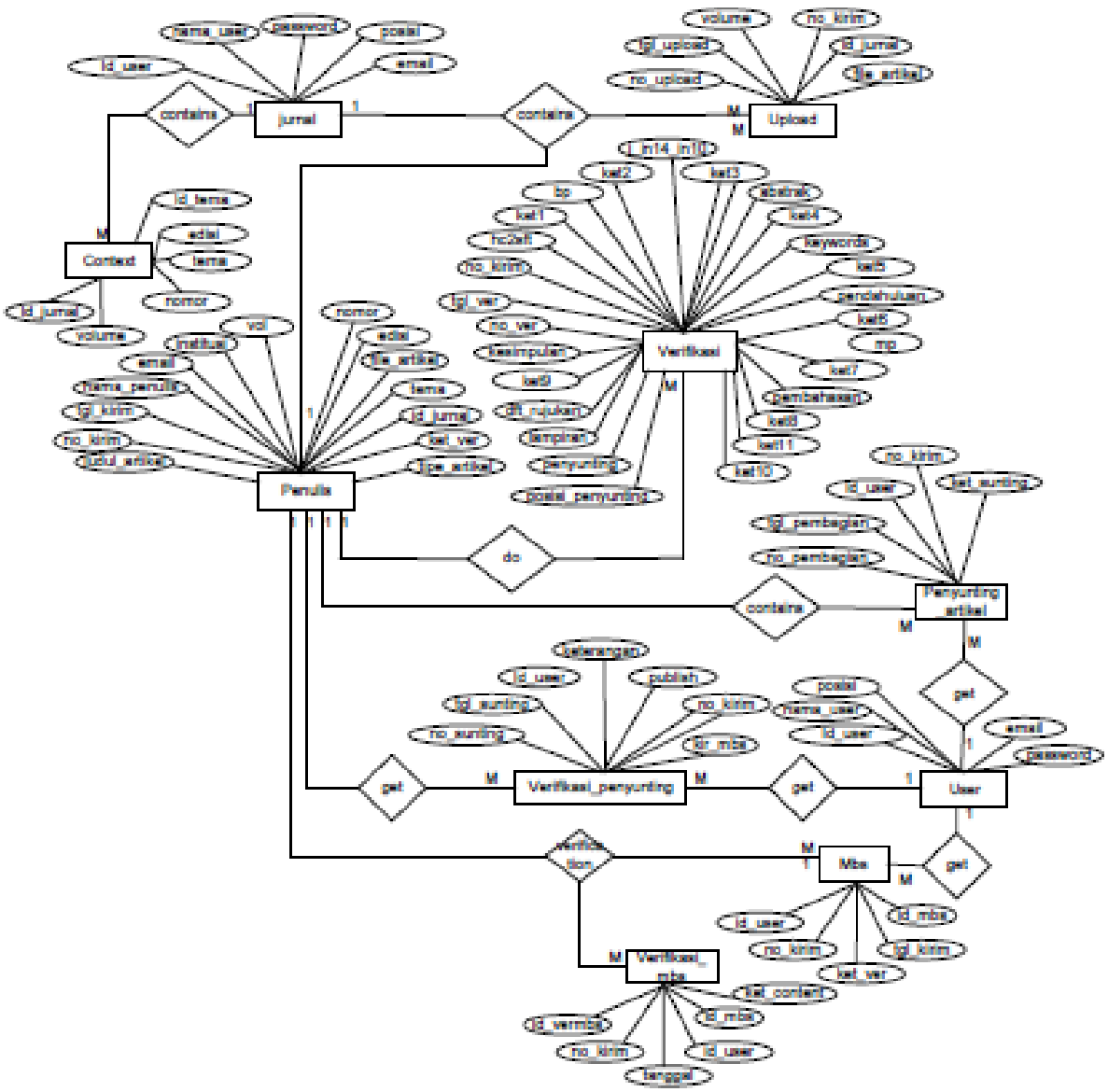


Figure 4. Entity Relationship Diagram

3. RESULT AND DISCUSSION

This research earn a website of managing scientific journal. The following is a discussion of the results and websites that have been made.

Registration Article Menu

The following is a menu where the writer can include the identity and file articles.

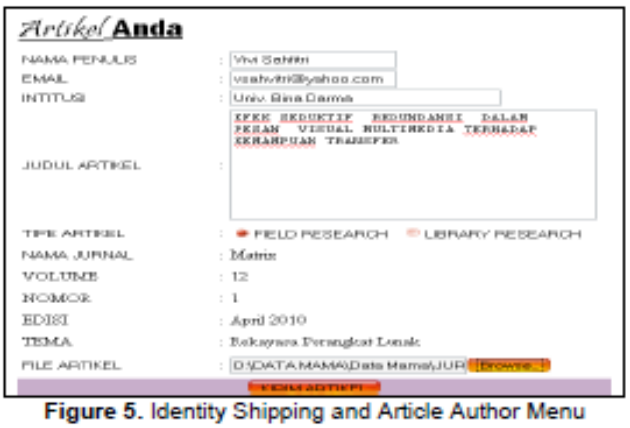
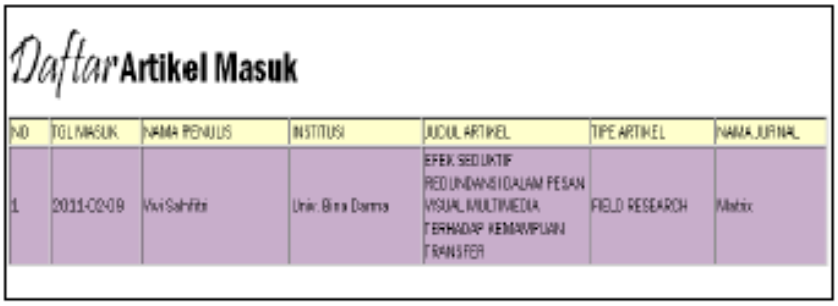


Figure 5. Identity Shipping and Article Author Menu

If the article is delivered has been put into the website, then the manager will JIT can see in Figure 6.



Daftar Artikel Masuk

NO	TGL MASUK	NAMA PENULIS	INSTITUSI	JUDUL ARTIKEL	TIPE ARTIKEL	NAMA JURNAL
1	2011-02-09	Vivi Sahfitri	Univ. Bina Darma	EFEK SEDUKTIF REDUNDANSI DALAM PESAN VISUAL MULTIMEDIA TERHADAP KEMAMPUAN TRANSFER	FIELD RESEARCH	Metro

Figure 6. List of Articles

Verification Article Menu

Verification menu has 3 menu article. The first menu is used for login managers JIT, second and third for the Executive Editor for Mitra Bestari. Figure 8 shows the menu used JIT manager to verify that the new entry from the article author, whether the article has been delivered in accordance with the format of writing or not. If not, then the comments from the manager of JIT sent back to the author. The author can then correct the article to be corrected immediately..

Verifikasi Artikel

Figure 7. Articles Verification for Managers JIT

The second menu is for login Executive Editor. It is used by the Managing Editor to proofread articles from authors based on the contents of the article. Can be seen in Figure 8.

Verifikasi Content

NAMA PENULIS : Vivi Sahfitri

EMAIL : vsahvitri@yahoo.com

INTITUSI : Univ. Bina Darma

JUDUL ARTIKEL : EFEK SEDUKTIF REDUNDANSI DALAM PESAN VISUAL MULTIMEDIA TERHADAP KEMAMPUAN TRANSFER

TIPE ARTIKEL : FIELD RESEARCH

NAMA JURNAL : Metro

KETERANGAN CONTENT : artikel sudah di-edit.

Figure 8. Articles Verification for Managing Editor

The third menu is the menu for login Mitra Bestari. This menu is used Mitra Bestari to provide comments about the article author, whether published or not worth. Can be seen in Figure 9.

Figure 9. Articles Verification for Mitra Bestari

4. CONCLUSION

The research produced a website for the integrated management of scientific journals in Universitas Bina Darma using structured design. The website is expected to be used in the management unit integrated in the scientific journal Universitas Bina Darma.

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