INTRANET-BASED E-PROCUREMENT IN THE DEPARTMENT OF COMMUNICATION AND INFORMATICS WEST JAVA PROVINCE

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ABSTRACT

In each agency required the provision of goods, the institutions of government procurement can be done by direct appointment. This is as provided for in Presidential Decree number 80 of 2003 RI on pendoman implementation of procurement of government. The existence of difficulties in the procurement process by direct appointment, and less informatifnya regarding procurement of goods to be carried out, and difficulties in data processing is a provider of some of the problems that occurred in West Java provincial government DISKOMINFO. The purpose of the construction of this application is to be able to resolve the issue.

The development of this system using waterfall model of system development methodologies. Waterfall model consists of systems engineering at this stage of data collection that is by interview, observation, and literature studies, the next stage of analysis at this stage of system analysis tool used is flowmap, then the design stage at this stage is a tool used ERD (Entity Relationship Diagram) and to describe the process used DFD (Data Flow Diagram), phase coding system built in PHP using a MySql database, where further testing is done alpha testing and Blackbox testing betha with interview, and the last of maintenance in This phase is the maintenance of the system.

This application can handle data processing personnel, the process of making the procurement plan, procurement process, the appointment process, the process of examination of goods, the process of handing over the work, except that there are print employment contract. This application can store company data that will be the provider of goods. Further, the application is still using the existing intranet networks around the offices West Java Provincial Government DISKOMINFO. To access this application for providers of goods are required to come to the office because it is still used in limited applications network DISKOMINFO local area network in West Java Province.

Based on the results of research and testing alpha and betha of e-Procurement system is intranet based on Office of Communications and Information Technology West Java provincial government, the conclusions that can be taken is known that this system has been enough to ease the process of data processing, this system is quite feasible to be used to process procurement of goods by direct appointment.

Kata kunci :
Direct appointment, E-procurement, Waterfall, Intranet, West Java Province DISKOMINFO.

1. Pendahuluan

Procurement of goods required by most government agencies. In the procurement of government agencies by auction process, both the public auction, the auction is limited, direct selection, or direct appointment. This is implemented in accordance with Presidential Decree number 80 of 2003 RI on the implementation of procurement guidelines goods / services for Government. Facts on the ground shows that there is difficulty in the procurement process with the direct appointment of which the specifications of goods not supplied by users of the goods to the procurement officers, procurement officials difficulty in making HPS (estimated price alone). Too often, a procurement officer charged to conduct two to three procurement of goods. This of course the official damning considering that there was limited time. Another problem faced by DISKOMINFO namely the persistence of difficulties in data processing provider. This happens because

every provider will come and give the file on his company so that the file data providers are becoming more and more pile up. for it required an application that can assist in data processing of goods. Another thing that happened is still a lack of information that tells about the appointment process of procurement of goods directly to the company. So a new company will know that there are procurement process if the company was appointed as the provider. It was only known by one company only, while for other companies that there is no information at all. With the existing problems, as has been described above, then one solution is to build an application that can solve all existing problems, the application was referred to as e-procurement. E-procurement is conducted by electronic procurement, is expected in the presence of e-procurement procurement process can be done easily and quickly.

The intent and purpose of writing this essay is as follows:
Based on existing problems, the purpose to be achieved from this research is to build an intranet-based E-Procurement in the Office of Communications and Information Technology West Java Province. While the goal to be achieved in this study are:
1. Simplify and expedite the procurement process by direct appointment.
2 Simplify the process of data processing provider.
3. Maximizing the information about the procurement process that is being or will be implemented.

2. MODEL, ANALISIS, DESIGN, DAN IMPLEMENTASI

2.1 Model

2.2 Data analysis techniques in the making software using modeling software with waterfall method, which involves several processes including:
a.Systems Engineering
In this stage of data collection that is by interview, observation and literature study. This phase is conducted to determine the problem.
b.Analysis
Finding, defining and understanding the needs of the software. To know the nature of the program to be made, such as the functions you need, performance (ability) and the interface is needed. This stage should be documented and presented to the user system.
c.Design
Design is a process used to alter the above needs to be representation in the form of software design before coding begins. Design should be able to implement the requirements mentioned in the previous stage. Like the previous activity, then this process must also be documented as the configuration of the software.
d.Coding
To be understood by machines, in this case is a computer, then the design must be transformed into a form that can be understood by machines, ie into the programming language through a process of coding. This stage is the implementation of the design phase.
e.Testing
Testing is something that is made must be tested. So it is with software. All software functions should be tested, so that the software is free from error, and results should be in strict accordance with the needs that have been defined previously.
f.Maintenance
A software maintenance is required, including the development, because software that is made is not always just like that. When the run may still have minor errors that are not found before, or are there additional features that did not exist in the software. Development is required when a change from an external company such as when there is change of the operating system, or other devices.

2.3 Analisis

2.2.1 Analysis Procedure ongoing

Based on the results of research, there are several procedures performed in DISKOMINFO, including:
1. Procurement planning Procedure
2. Company profile entry procedures and the appointment of committee / procurement officers
3. The procedures for scheduling, document procurement and del (approximate price itself)
4. The procedures for making invitations
5. Meeting Procedure explanation
6. Assessment procedures prequalification, bid evaluation meetings, clarification and negotiation
7. The procedure proposed winner

8. SPPBJ manufacturing procedures and employment contracts
9. Contract execution procedures
10. Procedures for checking goods / services and handover the goods / services

After conducting an analysis of current procedures, can be seen that in the procurement of goods, providers still must enter the company profilenya to the office.

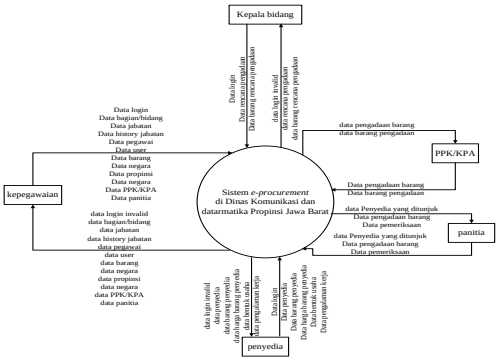
The proposed solution is to build an intranet-based e-procurement to overcome these problems.

2.2.2 Functional Requirements Analysis

2.2.3.1 *Diagram Context*

Kontexs diagram is one tool in structural analysis. This context diagram describes the system outlines or as a whole.

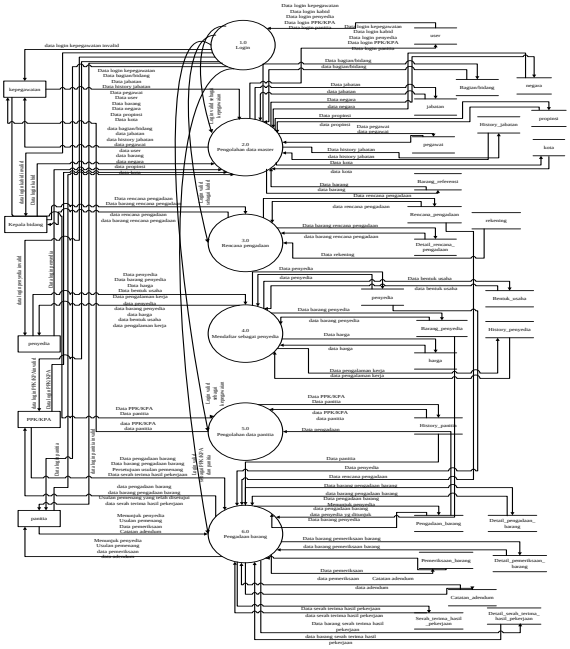
Context Diagram System context diagram intranet-based E-Procurement in the Office of Communications and Information Technology West Java Province can be seen in Figure 1.



Gambar 1. Diagram Sistem E-Procurement berbasis intranet di Dinas Komunikasi danInformatika Provinsi Jawa Barat

2.2.3.2 DFD Level 0

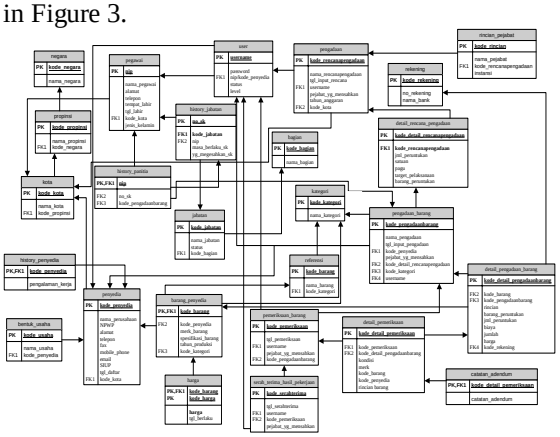
DFD Level 1 for E-Procurement System intranet based on Office of Communications and Information Technology West Java Province can be seen in Figure 2.



Gambar 2. DFD Level 0 Sistem E-Procurement berbasis intranet di Dinas Komunikasi dan Informatika Provinsi Jawa Barat.

2.2.3.3 Skema Relasi

Schematic relation of E-Procurement System development intranet based on Office of Communications and Information Technology West Java Province can be seen in Figure 3.

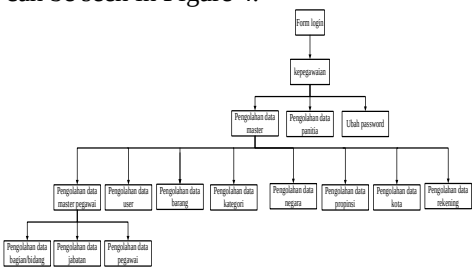


Gambar 3. Skema Relasi Sistem E-Procurement berbasis intranet di Dinas Komunikasi dan Informatika Provinsi Jawa Barat

2.4 Design

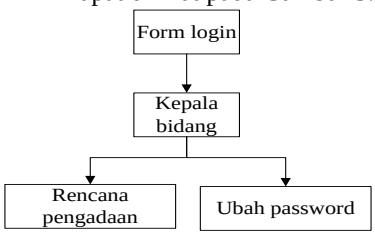
Design the menu structure is the use of point systems that are easy to understand and easy to use. The design of the menu structure of E-Procurement System for construction of an intranet based on Office of Communications and Information Technology West Java province is divided

into five users, namely:
a. Menu structure staffing
It can be seen in Figure 4.



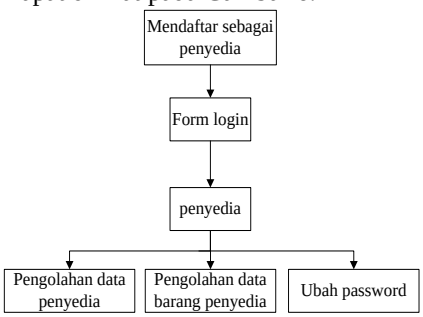
Gambar 4.Struktur Menu kepegawaian

a. Struktur menu kepala bidang
Dapat dilihat pada Gambar 5.



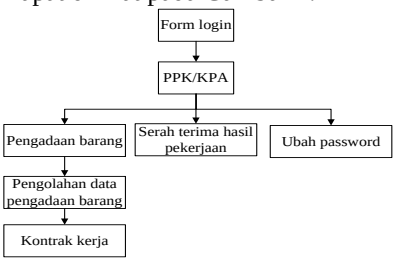
Gambar 5. Struktur Menu kepala bidang

b. Struktur menu penyedia
Dapat dilihat pada Gambar 6.



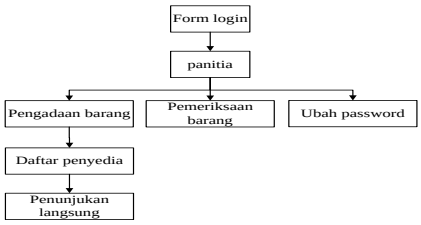
Gambar 6. Struktur Menu penyedia

c. Struktur menu PPK/KPA
Dapat dilihat pada Gambar 7.



Gambar 7. Struktur Menu PPK/KPA

d. Struktur menu Panitia
Dapat dilihat pada Gambar 8.



Gambar 7. Struktur Menu panitia

2.5 Implementasi

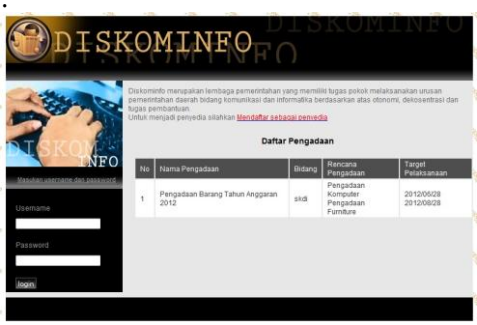
Plan testing will be done by testing the alpha and beta systems.

Based on the results of alpha testing and test samples that have been the case can be concluded that if the data is entered correctly then the system will remove the output functionally in line with expectations, and if the data is entered wrong, the system will emit an error message and the data output will not be in line with expectations

Based on test results betha with sample test cases that have been done to give the conclusion that the application is an intranet-based e-Procurement should be pretty easy employment in data processing and to facilitate the committee in the selection process required providers of goods, providers fairly easy to manage company data, This application has a view that is quite interesting, for more background color should be green because the application is used in the West Java Provincial Government, The application is quite in accordance with that required by the DISKOMINFO in conducting the procurement of goods by direct appointment, application is easy to use for all user level, but better still if such a manual is provided, this application is feasible to use, just takes more for a more detailed refinement.

3. HASIL DAN DISKUSI

From analysis and design that has been done, the results from one application built to look like in Figure 8. below
:



Gambar 8. Tampilan Aplikasi

4. KESIMPULAN DAN SARAN

4.1. Kesimpulan

Based on research conducted, it can be concluded from E-Procurement System for construction of an intranet based on Office of Communications and Information Technology West Java Province as follows:
a. E-Procurement application based intranet built enough to facilitate and expedite the procurement process by direct appointment in the Office of Communications and Information Technology West Java Province.
b. This application can also assist in processing the data provider.
c. Application has been to provide information on the procurement of goods to be carried out.

4.2. Saran

Based on the above conclusions, the suggestions that are expected of application is expected to be used online and fully electronic, so that each supplier or employee can access them anywhere and anytime, needs a chat room facility to enable providers to communicate with the committee, needs a development on look for more attractive designs, The system development method to simplify the process of selecting providers who will be appointed, provided the print process for the reports that have been completed.

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