The DEVELOPMENT of the PURCHASE SYSTEM AND the SALE of the THING in PD.DIAN JAYA

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ABSTRAK

PD. Dian Jaya was the trade company that moved in the material field (building materials) that produced the iron for the building, in his activity carried out the trade transaction in the thing. In this time information system exist in PD. Dian Jaya still have the manual tool. The system only have simple bookkeeping. Weakness of the system is that not effective and efficience. The result of examination is data processing which computerization is better than the manual way, more efficience and effective.

In the process of the development of the purchase system and the sale of this thing, used the kind of the case study research to the agency, where the technique of the data collection that was used, in part that is observation by observing directly the process of the work that was carried out in the agency to receive the picture that was sharp about the object that was researched, the interview, that is carrying out the dialogue directly with the side that had authority in giving information towards the data that was needed and the study of literature by looking for supportive books. For the methodology of the software research of using the method waterfall, whereas to modeling of his data used the method structuring that is Entity Relationship Diagram (ERD) to depict the data model and the Flow Diagram Data (DFD) to depict the functional model.

System examination that consist of alpha examination which the examination uses the method of black box examination focused of software functional requirement and beta examination. That is field examination with data tabulating as an accurate value selection result.

Keywords: development of the purchase system and the sale, information system.

1. INTRODUCTION

1.1 Identification of Problems

How to build information systems purchases and sales of goods in PD. Dian Jaya.

1.2 Purpose dan Objectives

The purpose of the writing of this thesis is to create a purchasing system development and sales of goods in PD. Dian Jaya.

Objectives to be achieved in creating a software sales and purchases of goods are:

1. To facilitate the employees in handling the purchase and sale of goods quickly and accurately.

2. To facilitate in making the purchase and sale of reports of goods, so that the delivery of purchases and sales reports to the leaders of corporate more quickly.

3. To simplify and speed in obtaining information about the data mixing buying and selling of goods

1.3 Benefits

The benefits of making these applications include:

1. Can help employees work in handling the purchase and sale of goods
2. Can facilitate in making the purchase and sale of reports of goods
3. Can simplify and accelerate data mixing informed buying and selling goods.

2. MODEL, ANALYSIS, DESIGN AND IMPLEMENTATION

2.1 Model

1. Data collection phase
   a. Study library
   b. Field study
      b.1 Interview
      b.2 Observations
2. Software development stage.
   a. *System engineering* (Rekayasa perangkat lunak)
   b. *Requirement analiysis*
   c. *Design*
   d. *Coding (implementasi)*
   e. *Testing (pengujian)*
   f. *Maintenance (perawatan)*

2.2 Problem Analysis

Problems arising from the system that originated there are still shortcomings, thus causing the resulting information is not accurate and the process, the usual procedure can be completed less than optimally. Of the system is running now in PD. Dian Jaya,, no improvement is expected to help improve the system of employee performance, especially in the buying and selling.

2.3 Definition of Purchasing and Sales

Purchasing is the process of procurement of goods belonging to not meet the necessary requirements.

Sales is the sum of all goods that are the subject of the company's business, if the company is a trading company, is one company that is the sale of commodities sold by the company.

2.4 Desain

1. ERD (*Entity Relationship Diagram*)

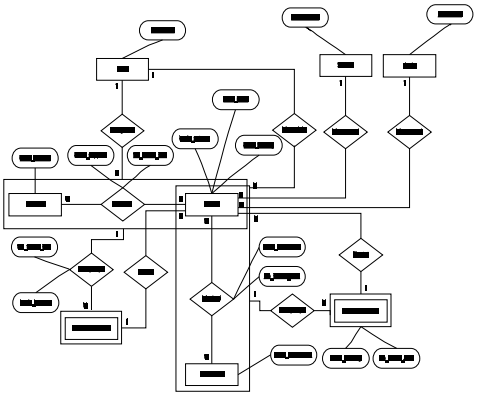


Figure 1. ERD (*Entity Relationship Diagram*)

2. Relation table



Figure 2. Relation table

3. Context Diagram

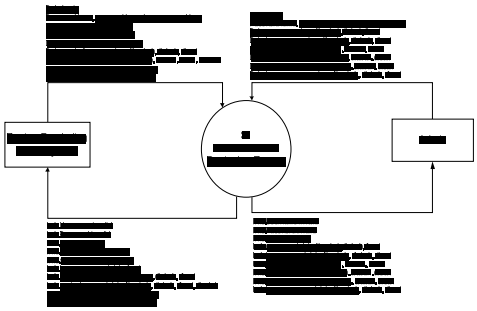


figure 3. Context Diagram

4. DFD (*Data Flow Diagram*)



Figure 4. DFD level 0

5. Structure of the admin menu

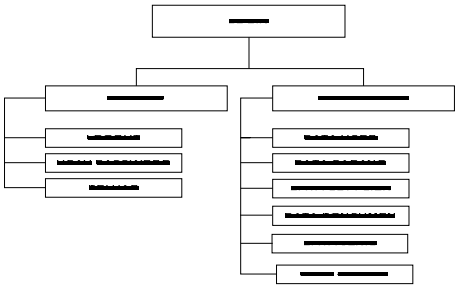
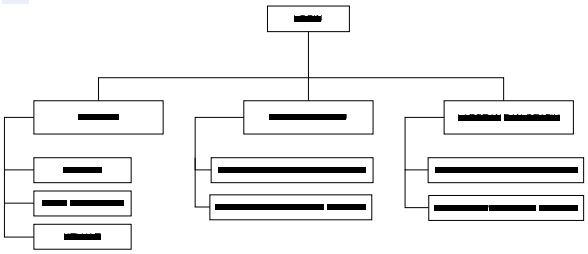


Figure 5. Structure of the admin menu

6. Menu structure of the purchase and sales



Gambar 6. Menu structure of the purchase and sales

2.5 Implementation

1. Software Implementation

The software used on computer systems to build Information System purchase and sale of goods is as follows:

1. Windows XP Operating System.
2. MySQL as *database.*
3. Borland Delphi 7.0 for writing program code.

2. Hardware Implementation

Hardware used for the operation of computer systems in PD. Dian Jaya with the following specifications:

1. *Client Computers*
   a. Processor Pentium IV 2,3 Ghz
   b. Monitor 14“
   c. Hardisk Drive 40 Gb
   d. Memory/RAM 512 Mb
   e. CD ROM drive
   f. Keyboard
   g. Mouse
2. *Server Computers*
   a. Processor Pentium IV 2.6 Ghz
   b. Monitor 14“
   c. Hardisk Drive 80 Gb
   d. Memory/RAM 1 Gb
   e. CD ROM drive
   f. Keyboard
   g. Mouse

3. Network Implementation

Network will be built on that glorious PD.Dian based on client server.

4. Interface Implementation

1. Display Home



Figure 7. Display Home

2. View User Data Processing

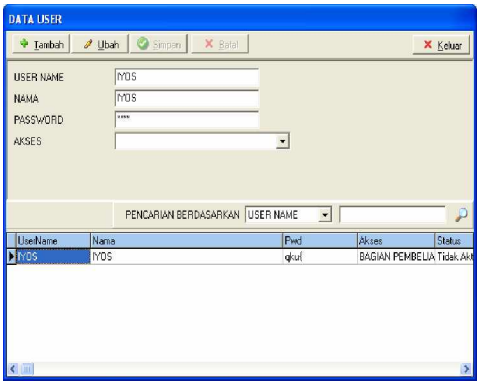
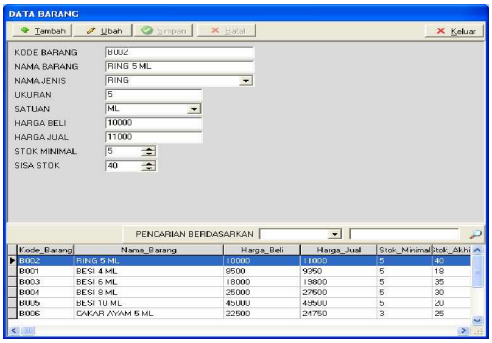


Figure 8. View User Data Processing

3. Data Processing Display Products



Gambar 9. Data Processing Display Products

4. View Supplier Data Processing

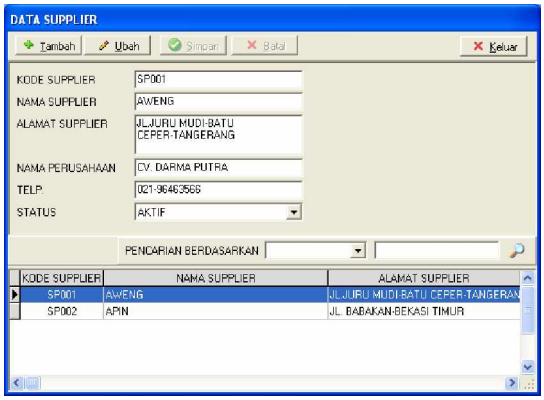


Figure 10. View Supplier Data Processing

5. View Consumer Data Processing

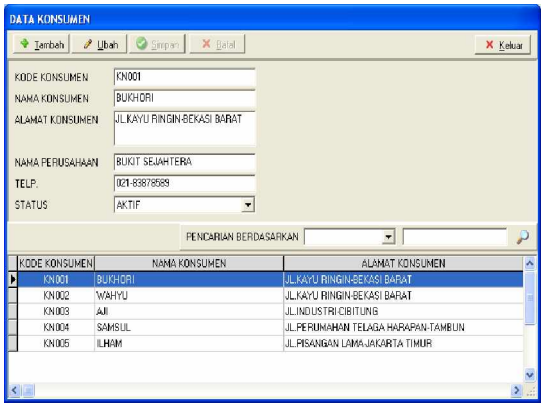


Figure 11. View Consumer Data Processing

6. Display Type Data Processing

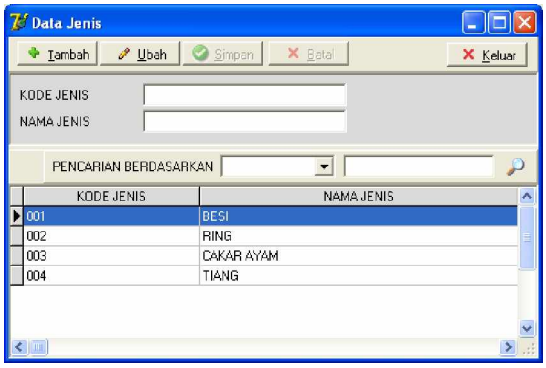


Figure 12. Display Type Data Processing

7. View Data Processing Unit



Figure 13. View Data Processing Unit

8. Purchasing Data Processing Display

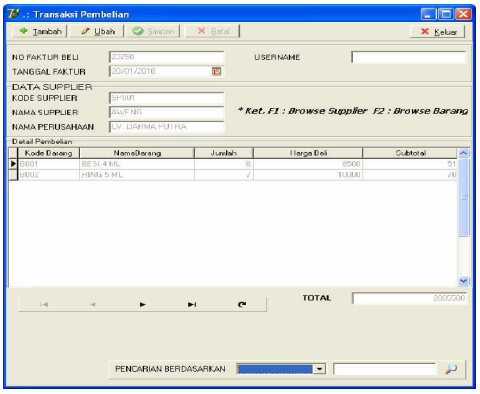


Figure 14. Purchasing Data Processing Display

9. Display Sales Data Processing

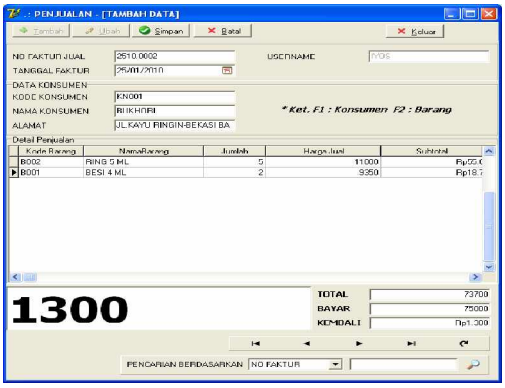


Figure 15. Display Sales Data Processing

3. RESULTS AND DISCUSSION

3.1 SI Facilities Purchase and sale of Goods

Information system built has the following capabilities :

a. Generate reports buying and selling goods.
b. Can process data that is faster and more accurate.
c. Can generate information about the data more accurate.
d. Can print sales invoices.

3.2 Sales Solution

At PD.Dian Jaya selling price of goods to take advantage of 10% of the purchase price. Suppose for example the purchase price of goods Rp. 10.000,-

Given : purchase price = Rp. 10.000,-

Then :

Selling price = (purchase price x 10%) + purchase price

= (Rp. 10.000,- x 10%) + Rp. 10.000,-

= Rp. 1.000,- + Rp. 10.000,-

= Rp. 11.000,-

So the selling price of goods Rp. 11.000,-

4. CONCLUSIONS AND SUGGESTIONS

4.1 Conclusions

1. Information system built to help ease employees work in handling the purchase and sale of goods so as to streamline the performance and efficiency of time.
2. Information system built able to produce a report that is in the form of purchase reports and sales reports accurately and efficiently to the management of the company.
3. Information System that was built to facilitate and speed in obtaining information about the data pengolahah buying and selling goods.

4.2 Sugesstions

1. information system is built to be developed further, so that information can be presented more clearly, more complete, and more, in order to become an information system that can provide complete information.
2. Further optimize the use of computers in performing data processing and information systems.
3. Improvement in the user interface to make it more interesting.

5. DAFTAR PUSTAKA

[1] Jogiyanto, (1990), *Analisis dan Desain Sistem Informasi*, Andi, Yogyakarta.

[2] Abdul Kadir,(2000). *Konsep dan Tuntutan Praktis Basis Data*, Andi,Yogyakarta.

[3] Roger, Pressman S, (2002), *Rekayasa Perangkat Lunak Pendekatan Praktisi*. Andi, Yogyakarta.

[4] Fatansyah, (2004). *Basis Data*, Bandung: Informatika.

[5] Husni, (2004), *Pemrograman Database Dengan Delphi*, Graha IlmuYogyakarta.

[6] Martina, Inge, (2002), *Database Client/Server Menggunakan DELPHI*, Elex Media Komputindo Jakarta.

[7] *www.osun.org*/konfigurasi+client+server-pdf.html. Diakses pada tanggal 10 Januari 2010, 16:35:23.

[8]*http://lecturer.ukdw.ac.id/othie/Jaringan_Komputer.pdf*. Diakses pada tanggal 10 Januari 2010, 16:40:20.