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Java-based Clothing Sales Information System at Dframe Store Bumiayu Brebes

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ABSTRACT : *Informatics technologies will continue to develop along with the development of computer experts who are always trying to provide better solutions in various ways. One of the technological developments is information technology that always provide solutions to increase effectiveness and efficiency in sales, especially. When a survey was conducted on Dframe Store, a problem was found, their sales data processing was still conventional. There was a delay in providing information to conclude action of plan with the sales properties. From the data collection that was carried out with observations and interviews, this Java-based application was produced with the waterfall method. A sales information system can be generated to assist Dframe Store in carrying out its activities and to facilitate data management with the help of the Netbeans IDE. In other hand the advantage of creating this system is helping both buyer and seller to make better experience in sales.*
KEYWORDS : *Information System, Clothing Sales, Java-based.*

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I. INTRODUCTION

The accurate information is needed to provide better conclusion where we all want to made a decision. Using computer and knowledge about informatics engineering, those requirements are able to be provide. Data flow that will be proceed to create some reliable information is having big role to determine the result of a system. It's needs faster process and precise accuration. It's also needs database to proceed and save the data whenever it's needed. Dframe Store is a business company that engaged in selling its own branded clothes. Dframe Store was founded in the end of 2017. In their last system it was procced manually using the Microsoft Office. Those made some issues where need more time and more focus to ensure the data was correctly being saved. In this research using the Informatics technology to develop the sales system.

Based on above introduction we identify the problem that happened on Dframe Store as mentioned below:

- Manually procced data transaction using Microsoft Excel
- Vulnerable to miscalculation of sales data

Following are the research purpose that have been conducted:

- Analyze sales data process on Dframe Store to be develop with Java-based using Netbeans IDE
- Increase the sales system performance using the database and automatic report.

II. LITERATURE REVIEW

A. Information System

With the system that carried out valid and accurate information the organization or business company are having an advantage to build a solid decision. Those makes information system is one of the most important things in a business company. It's helps to solved the daily data transactions, support the busines operational, better strategy and provides any needed report [1].

B. Java language

Programming language is being evolve to a better technology day by day. It's helps people to build a systematic application. Java was one of the popular programming languages in the world [2]. Java is a programming language with object oriented based and it has free platform. Java was developed by SUN Micro

System with a lot of benefits that made java as an enterprise developer language. Java was so powerful that able to be implement in any developer software. The most interesting facts about java is it's could be used to build a report that works on mobile phone, PDA and another equipment that equipped Java Virtual Machine [3].

C. Database

Most of the system in the world are using database. It's because database is inseparable part of a system. In a system that have to provide an output that firstly using direct input and processing procedure, it's requires database to complete the system. Database management system is a software that being used to define, create, process and access control database. Database management system provide a saving place and efficient that allow the data flow. Data flow needs a tools/hardware to procced the management, so it's able to keep processing procedure and increase the performance [4].

III. RESULT AND ANALYSIS

The ongoing system that be implement in Dframe Store was mentioned as bellow:

1. Master Data Process
- Consist of customer data, products data supply data and supplier data
- Each data is unique
- Each database has a primary key

2. Transactions Process
- Consist of orders data and payment data
- Each data is unique
- Each database has a primary key
- Orders data is mandatory before performing payment process
- Orders data and payment data should have a transactions number
- Payment data only done once
- Receipt is printed after payment process

3. Supply Process
- Each data is unique
- Each database has a primary key
- Supply process is mandatory before printing the supply letter
- Incoming supply data is equal with supply data

4. Report Process
- Consist of customer report, payment report, product stock report, supply stock report and supplier report

Report process require master data, transactions data and supply data.

Context Diagram

Context diagram helps to create structure that define flow diagram of the system. Context diagram provide requirement and goals of the system [5]. The context diagram that have been implement in Dframe Store is shown on below capture :

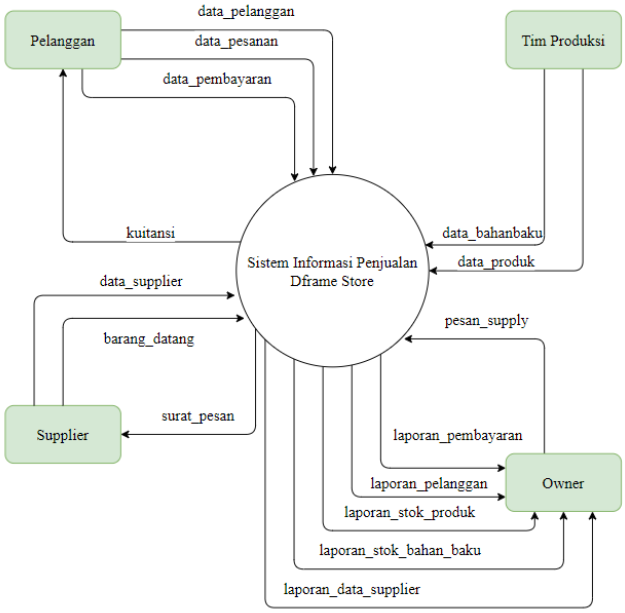


Fig. 1. Context Diagram

Data Flow Diagram

Data flow diagram is a methodology that develop structure of the system. The function of this diagram is to determine clear and structured data flow in the system. This Diagram help to figure out how the system works between each connectivity procedure with the data flow [6]. The data flow diagram on this research is shown on below :

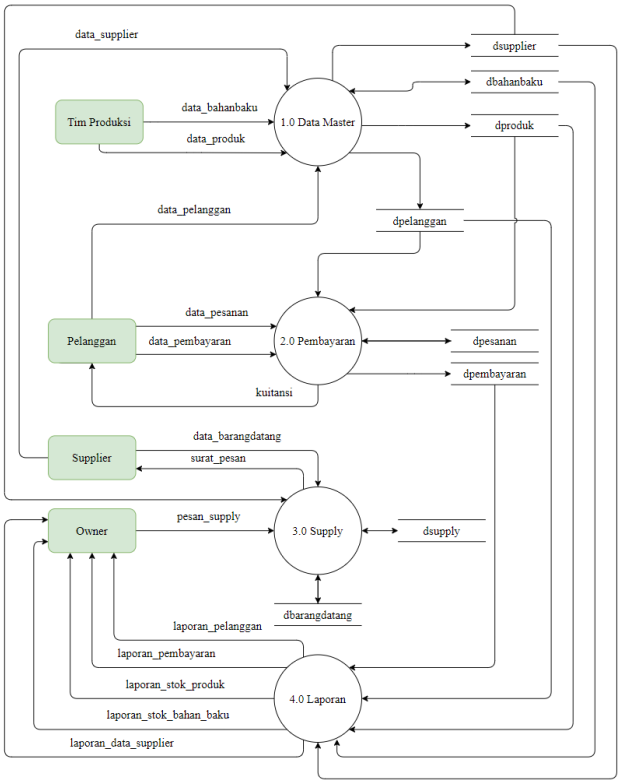


Fig. 2. Data Flow Diagram

Entity Relationship Diagram

ERD determine how the connection of each data works. It's connects each file with another file using the relation. For further details the ERD of Dframe system is shown below :

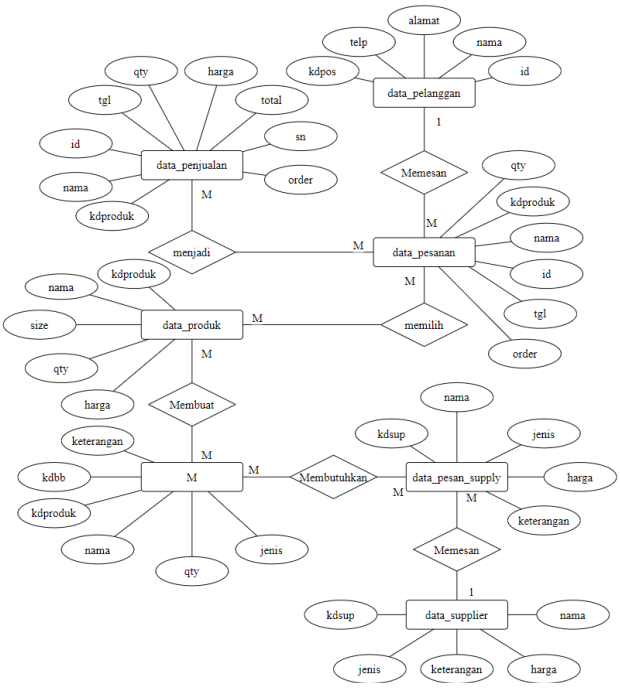


Fig. 3.Entity Relationship Diagram

Appliacation View

Main menu have another sub-menu that consist of a view program. Main menu collects all sub-menu to one view page that simplify the user. In order to create focus interface main menu could be more interactive to the user. Following is the main menu of Dframe Store sales system :

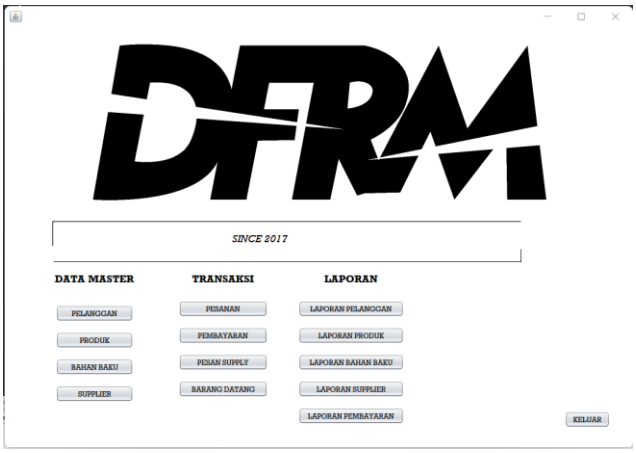


Fig. 4.Main Menu

Main menu consists of:

1. Data Master

This sub-menu consists of:

- Customer Data

A form to input customer data consist of customer identity. This data will be processed into another transaction form.

- Product Data

A form to input product data that consist of the details about the product and it stock values.

- Supply Data

A form that consist of the details about the supply data and it stock values

- Supplier Data

A form that consist of supplier identity that will provide supply to Dframe store.

2. Transaction

This sub-menu consists of:

- Orders data

A form that consist of customer order. The product that will be purchase by the customer is being procced here. The customer will have order number after this process.

- Payment data

A form that proceed the order data. The purchase order that have been entered by the customer is need to be pay here. The customer will receive a receipt after the transaction is done.

- Supply order data

A form that consists of supply order. The supply order is provided by the supplier. In this form will provide supply order letter that help Dframe Store to sent the request of supply orders.

- Incoming supply data

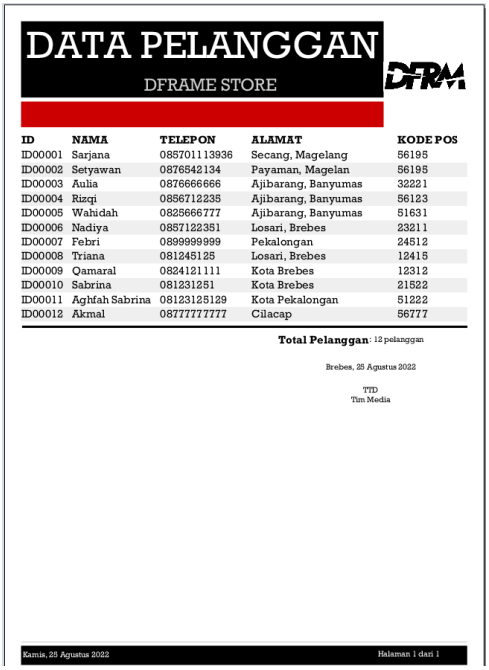
A form that proceed the incoming supply from the supplier. After the supply orders receives on the supplier, they will proceed the orders and sent the supply to Dframe Store. This form helps to update the stock and also complete the transactions of the supply orders.

3. Report

This sub-menu consists of:

- Customer Reports

This report will provide all of customer data that have been saved by the application. The example view of the customer report is shown on below :



DATA PELANGGAN

DFRAME STORE

ID	NAMA	TELEPON	ALAMAT	KODE POS
ID00001	Sarjana	085701113936	Secang, Magelang	56195
ID00002	Setyawan	0876542134	Payaman, Magelan	56195
ID00003	Aulia	0876666666	Ajibarang, Banyumas	32221
ID00004	Rizqi	0856712235	Ajibarang, Banyumas	56123
ID00005	Wahidah	0825666777	Ajibarang, Banyumas	51631
ID00006	Nadiya	0857122351	Losari, Brebes	23211
ID00007	Febri	0899999999	Pekalongan	24512
ID00008	Triana	081245125	Losari, Brebes	12415
ID00009	Qamaral	0824121111	Kota Brebes	12312
ID00010	Sabrina	081231251	Kota Brebes	21522
ID00011	Aghfah Sabrina	08123125129	Kota Pekalongan	51222
ID00012	Akmal	08777777777	Cilacap	56777

Total Pelanggan: 12 pelanggan

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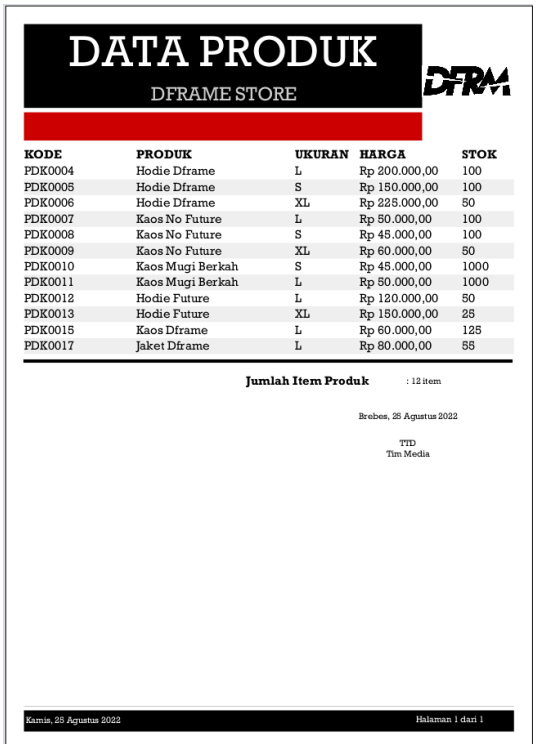
Fig. 5.Customer Report

- Product Reports

This report helps Dframe store to review all of the products stock that available. The example view of the product report is shown on below :



DATA PRODUK

DFRAME STORE

KODE	PRODUK	UKURAN	HARGA	STOK
PDK0004	Hodie Dframe	L	Rp 200.000,00	100
PDK0005	Hodie Dframe	S	Rp 150.000,00	100
PDK0006	Hodie Dframe	XL	Rp 225.000,00	50
PDK0007	Kaos No Future	L	Rp 50.000,00	100
PDK0008	Kaos No Future	S	Rp 45.000,00	100
PDK0009	Kaos No Future	XL	Rp 60.000,00	50
PDK0010	Kaos Mugi Berkah	S	Rp 45.000,00	1000
PDK0011	Kaos Mugi Berkah	L	Rp 50.000,00	1000
PDK0012	Hodie Future	L	Rp 120.000,00	50
PDK0013	Hodie Future	XL	Rp 150.000,00	25
PDK0015	Kaos Dframe	L	Rp 60.000,00	125
PDK0017	Jaket Dframe	L	Rp 80.000,00	55

Jumlah Item Produk : 12 item

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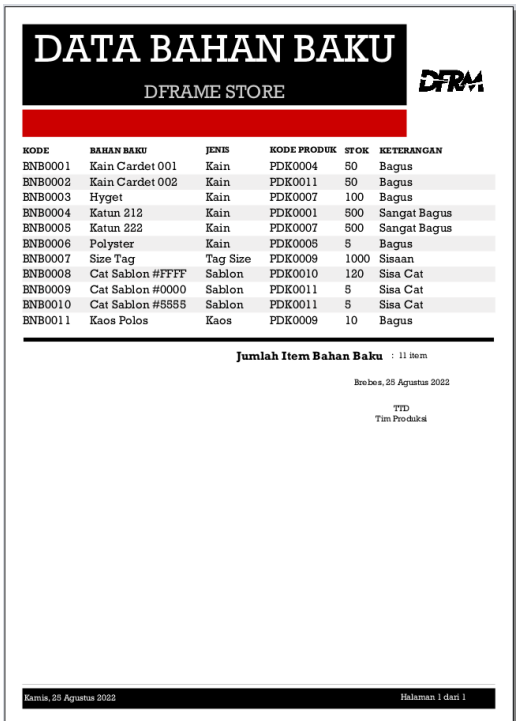
Fig. 6.Product Report

➢ Supply Reports

In this report all of the supply stock will be shown to help Dframe store review and collect the supply data. The output of the supply report is shown on below :



DATA BAHAN BAKU

DFRAME STORE

KODE	BAHAN BAKU	JENIS	KODE PRODUK	STOK	KETERANGAN
BNB0001	Kain Cardet 001	Kain	PDK0004	50	Bagus
BNB0002	Kain Cardet 002	Kain	PDK0011	50	Bagus
BNB0003	Hyget	Kain	PDK0007	100	Bagus
BNB0004	Katun 212	Kain	PDK0001	500	Sangat Bagus
BNB0005	Katun 222	Kain	PDK0007	500	Sangat Bagus
BNB0006	Polyster	Kain	PDK0005	5	Bagus
BNB0007	Size Tag	Tag Size	PDK0009	1000	Sisaan
BNB0008	Cat Sablon #FFFF	Sablon	PDK0010	120	Sisa Cat
BNB0009	Cat Sablon #0000	Sablon	PDK0011	5	Sisa Cat
BNB0010	Cat Sablon #5555	Sablon	PDK0011	5	Sisa Cat
BNB0011	Kaos Polos	Kaos	PDK0009	10	Bagus

Jumlah Item Bahan Baku : 11 item

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Fig. 8.Supply Report

➢ Payment Reports

This report will show how many transactions that happened on a certain range of time. This report helps Dframe Store to calculate how many incoming transactions of their sales. Following is the view of the payment reports :

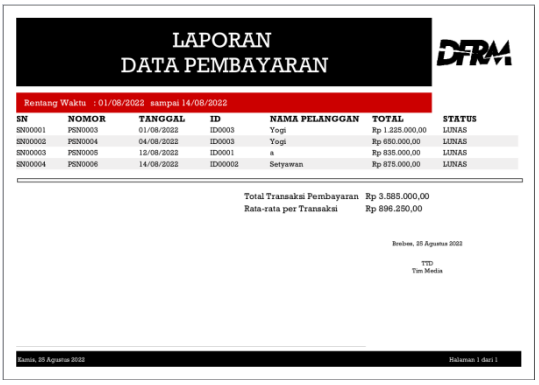

Fig. 9.Payment Report

➢ Supplier Reports

This report will show supplier data based on their supply type. The view of the supplier report is shown on below figure :

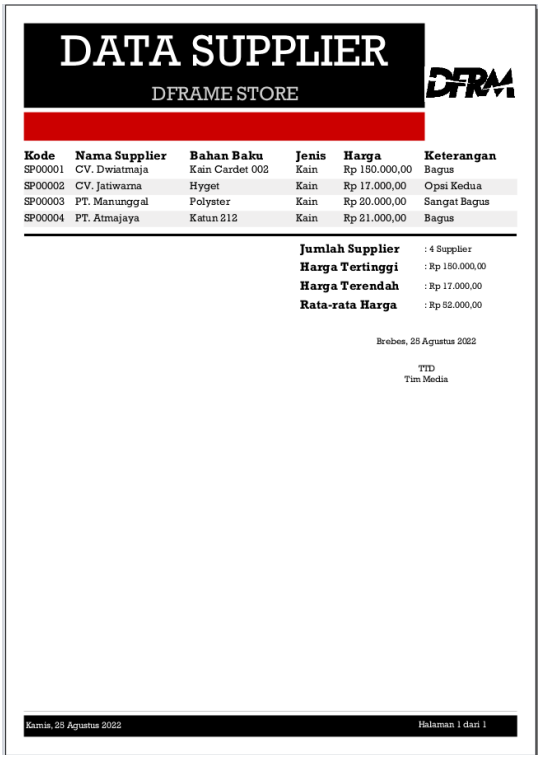

Fig. 10.Supplier Report

IV. CONCLUSION

Based on the research that have been conducted, there was view conclusion that listed on below:

➢ The sales system that have been created helps Dframe Store to proceed it sales data faster and more efficient.

➢ The system saves the data on the database to minimize the miscalculation and missing data

➢ The system helps to increase the user performance whenever they do transactions, it's become more easier and faster to collect the sales data on Dframe Store.

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