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INVENTORY APPLICATION PROGRAM ON CV X IN SEMARANG

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Abstract

This research uses qualitative approach. Qualitative approach is a process of research and understanding based on a methodology that investigates a phenomenal. According to jane richie qualitative research is an effort to improve the social world and its perspective in the world, in terms of concepts, behaviors, perceptions and problems about human beings are meticulous. From the discussion and observation of research, it can be concluded the following: First, it takes a long time to modulate the inventory of goods, therefore it is necessary to improve through development methods such as HIPO and basic visual coding. Second, The lack of thoroughness in modulates every item entering and exiting, for that the need for a program of application of inventory.

Introduction

Batik X is a home industry company engaged in batik fashion. Batik X was established from 2010 until now. Along with the development of Batik X joined several online shops to market its products, including Zalora, VIP Plaza, Mataharimall.com, Qoo10, and Muslimarket. There is also an offline shop that is in Centro Bintaro Jaya X-change. From some customers who cooperate with Batik X, Zalora is the first customer to cooperate with Batik X (Darmawan & Setiawati, 2015).

Zalora is one of the customers who cooperate with Batik X and along with the many competitions in the field of e-commerce, zalora and other online shops many are turning to a market place that is not stored in supplier warehouses but stored in warehouses owned by the company (Basuki & Pasa, 2018). So along with the large demand for goods needed by customers will be more and more administration modulate the data of goods entering and exiting the warehouse, therefore there must be a lot of goods that will be recap by the administration because of the number of goods in the warehouse stored as inventory in each marketplace (Fathansyah, 2012). Therefore, the administration has problems in modululating data that every day can reach hundreds of batik that has just come and must be dissied to each marketplace, after which the administration must also make a price for each batik that every model, motif, color is different. The administration must also prepare a price tag to be tagged in batik to be sold. Before clothes are marketed in the online shop, we must also photograph our batik first according to the criteria given by e-commerce. Therefore, Batik Amarta Nawa collaborates with Inbound Indonesia to photograph our batik with detailed models and criteria, and the background desired by Amarta Nawa (Gie, 2007).

Along with the number of goods coming in and out of the warehouse and the large number of customer requests, the administration must be thorough. Inventory of goods in the warehouse is certainly very important for an admin to know what items are ordered by online

shop customers and make no mistake, the inventory of goods from each online shop in the warehouse must also be very careful in order to be faithful to the purchase of goods in the message remains available. Therefore an administration needs to store every item that comes in and out of the warehouse (Indrajani, 2011).

Methods

This research uses a qualitative approach. Qualitative approach is a process of research and understanding based on a methodology that investigates a phenomenal. According to jane Richie (Moleong, 2019) qualitative research is an effort to improve the social world and its perspective in the world, in terms of concepts, behaviors, perceptions and problems about human beings are meticulous.

The method that researchers used in this study was a descriptive method. The descriptive method according to Nawawi (Campo, Ballester, Langlois, Dacremont, & Valentin, 2010) can be interpreted as a problem solving procedure that is investigated by describing or describing the state of the subject or object of research (a person, institution, society, and others) at this time based on facts that appear or as is. According to (Yin, 2011) descriptive research method is research intended to investigate the circumstances, conditions or other things already mentioned, the results of which are presented in the form of research reports.

Scientific methods are used to obtain data with specific purposes and uses. Based on this, there are four keywords that need to be considered, namely scientific means, data, purpose, and usefulness. The reason the author uses qualitative methods that are deriktif because qualitative method is not to look for some of the influence of a variable on other variables, but the research that the author does is to explore, find and explain how the problem can be handled to the maximum.

Results and Discussion

A. System Design

System design consists of ERD, normalization, HIPO structure, program flowchart and program display design.

1. Entity Relationship Diagram / ERD

In the previous chapter it has been explained about the understanding of ERD, and in this chapter the author will create an ERD based on the application program to be created (Cagiltay, Tokdemir, Kilic, & Topalli, 2013).

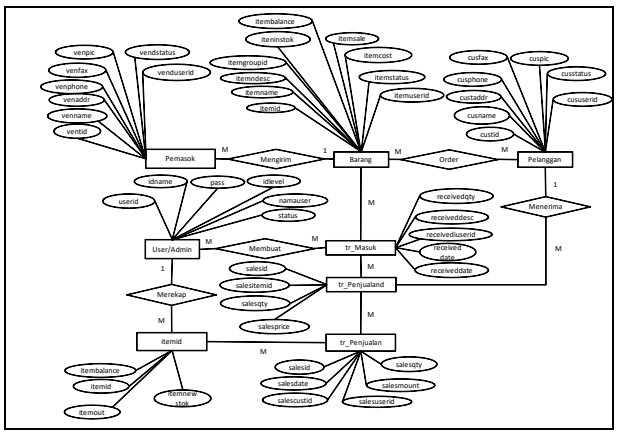
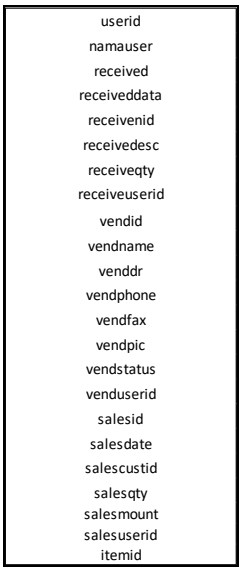
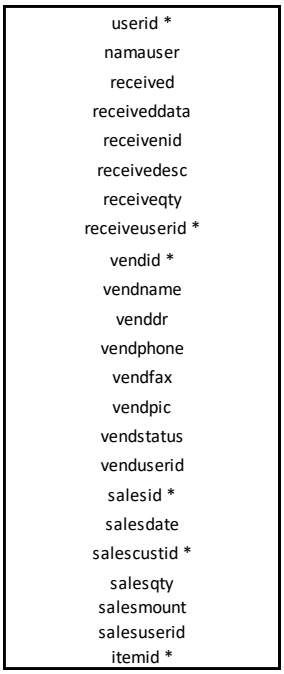


Diagram 1
ERD Inventory

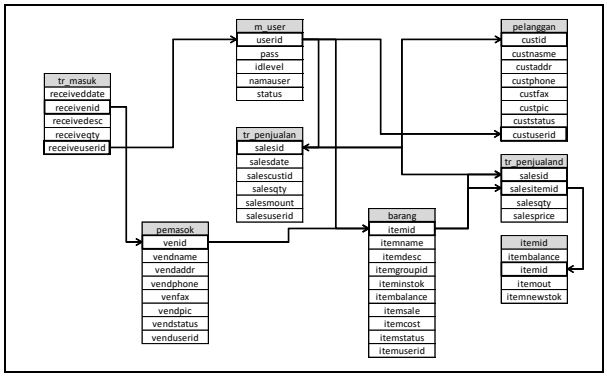
2. Normalization



Picture 2
Unormalization



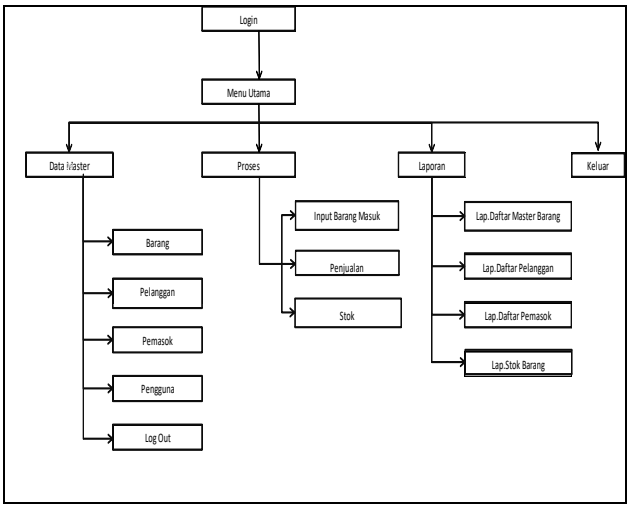
Picture 3
Normalization to one (1NF)



Picture 4
Second normalization (2NF)

3. Structure HIPO

HIPO (*Hirearchical Plus Input Proses Output*) is a program documentation tool and also as a hipo design tool based on functions that aregrammed on the main menu (Davis, 2019). Here is the structure of HIPO program in inventory application program on CV Amarta Nawa:

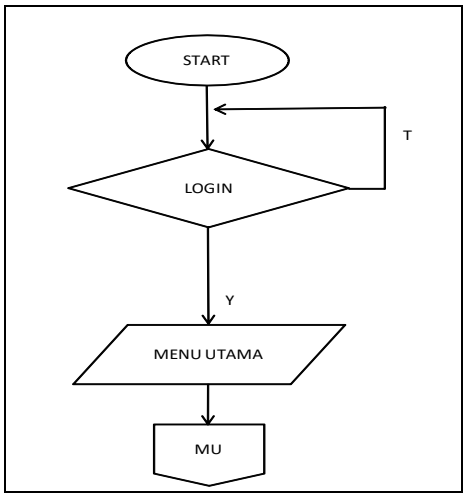


Picture 5
HIPO Production Schedule

4. Flowchart Program

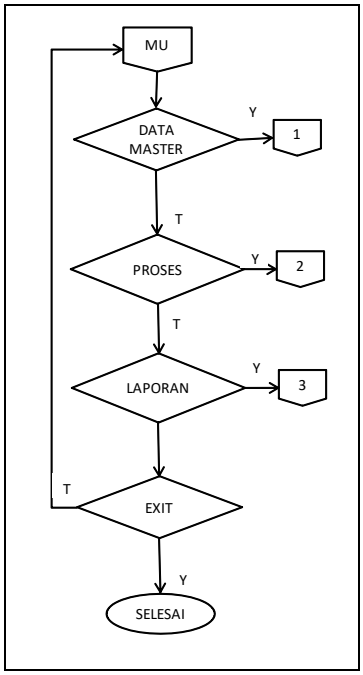
Flowchart program consists of login flowchart, main menu flowchart, file menu flowchart, report flowchart, flowchart 1A, flowchart 2A, flowchart 1A. A, flowchart 1A (Chapin, 2003). B, flowchart 1A. C, flowchart 2A. A, flowchart 2A. B, flowchart 2A. C as follows:

a.Flowchart Login



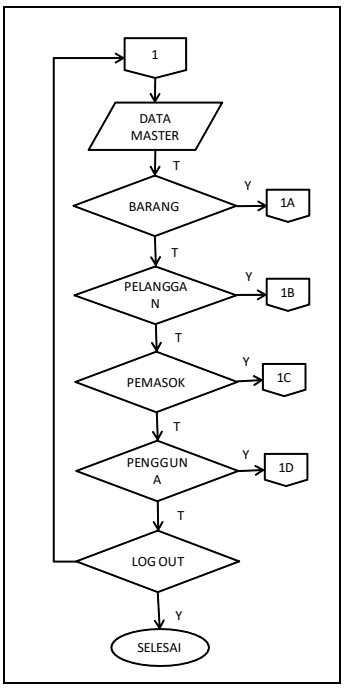
Picture 6
Flowchart Login

b. Flowchart Main Menu



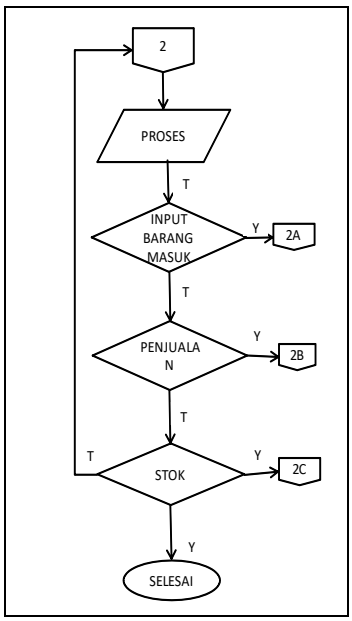
Picture 7
Flowchart Main Menu

c.Flowchart Data Master



Picture 8
Flowchart Menu File

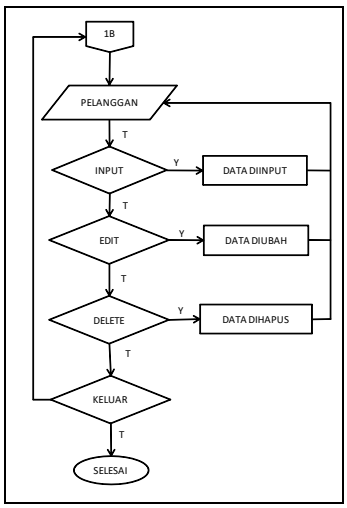
d. Flowchart Process



Picture 9
Flowchart Process

e.Flowchart 1B

From flowchart Data Master there is flowchart 1B as follows :

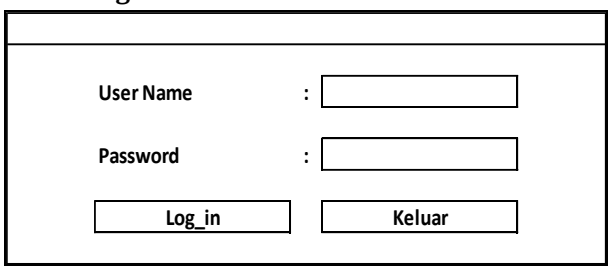


Picture 10
Flowchart 1B

5. Program View Design

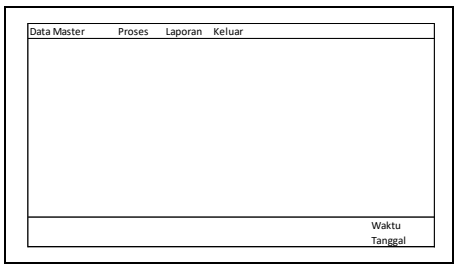
The design of the program display consists of login form, main menu form, menswear form, top women's formpakaian, lower women's clothing form, and report form as follows:

Form Login



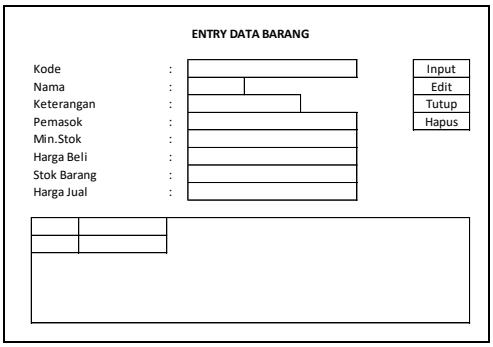
Picture 11
Menu Login

Form Main Menu



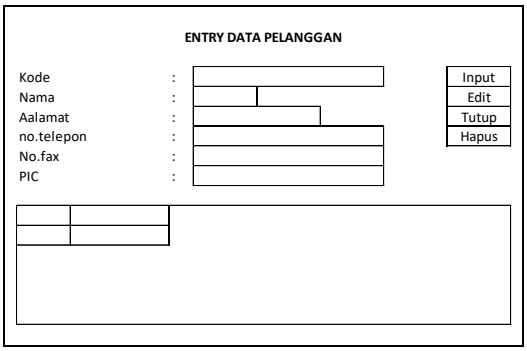
Picture 12
Main Menu

Goods Form



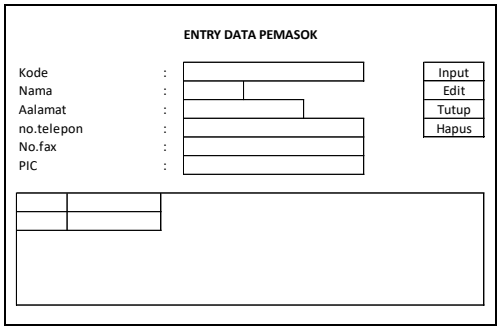
Picture 13
Goods Form

Form Customers



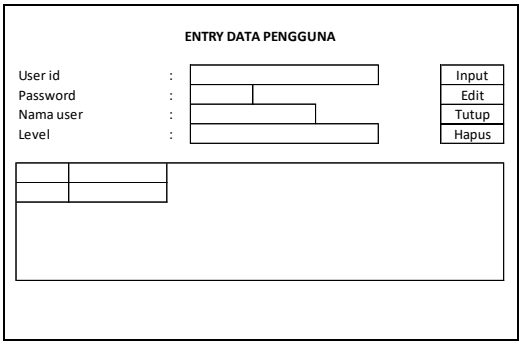
Picture 14
Form Customers

Form Supplier



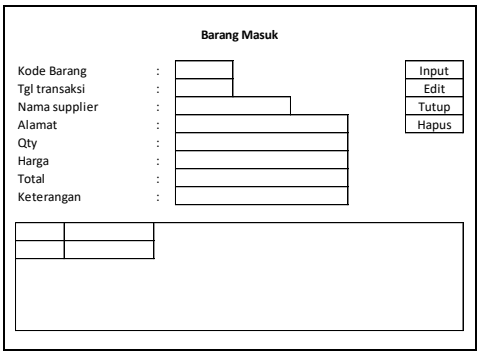
Picture 15
Form Supplier

Form User



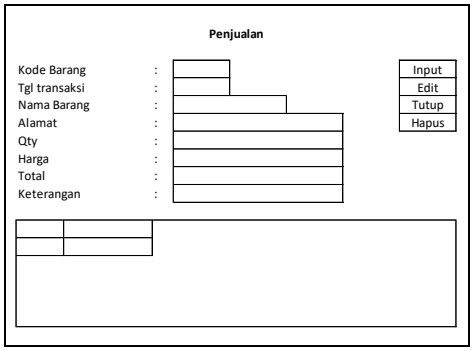
Picture 16
Form User

Form Incoming Items



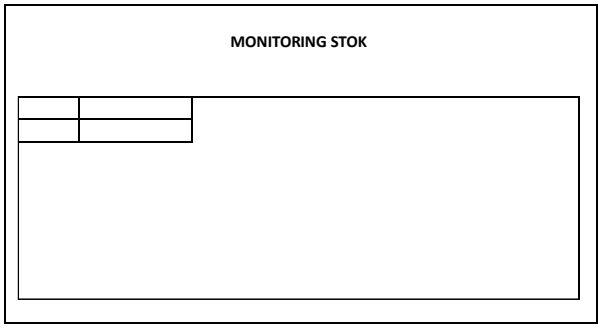
Picture 17
Form Incoming Items

Form Sales



Picture 18
Form Sales

Form Stock

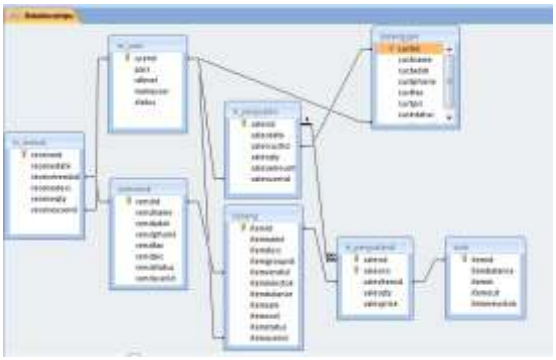


Picture 19
Form Stock

B. Implementation

Implementation consists of relationships between tables, database structure and program end result as follows :

Relationships Between Tables



Picture 20
Relationships Between Tables

1. Database Structure

The database structure consists of administrative data, menswear data, top women's clothing data, lower women's clothing data, supplier data and report data (Priana & Fitriani, 2016).

a.Data User

Contains all admin data amarta nawa.

File name : Penjualan.mdb
Name_table : m_user
Media : Microsoft Acces 2007
Primary key : Userid

Tabel 1
Data Admin

No	Field name	Type	Size	Description
1	User id	Text	10	Primery key
2	Pass	Text	20	-
3	odlevel	Text	5	-
4	namauser	Text	20	-
5	Status	number	2	-

b. Goods Data

Contains all menswear data amarta nawa Data Goods

File name : Penjualan.mdb
Nama_table : Goods
Media : Microsoft Acces 2007
Primary key : Itemid

Table 2
Goods Data

No	Field name	Type	Size	Description
1	Itemid	Text	10	Primery key
2	itemname	Text	25	-
3	itemdesc	Text	40	-
4	itemgroupid	Text	10	-
5	itemvendid	Text	8	-
6	iteminstok	Text	Double	-
7	itembalance	Number	Double	-
8	itemsale	Number	Double	-
9	itemcost	Number	Double	-
10	itemstatus	Number	Integer	-
11	itemuserid	text	10	-

c.Customer Data

Contains all women's clothing data on amarta nawa

File name : Penjualan.mdb
Name_table : Customers
Media : Microsoft Acces 2007
Primary key : custid

Tabel 3
Customer Data

No	Field name	Type	Size	Description
1	Custid	Text	8	Primery key
2	Custname	Text	30	-
3	Custaddr	Text	255	-
4	Custphone	Text	15	-
5	Custfax	Text	15	-
6	Custpic	Text	25	-
7	Custstatus	Number	Integer	-
8	Custuserid	Text	10	-

d. Supplier Data

Contains all women's clothing data on amarta nawa

File Name : Penjualan.mdb
Name_table : Supplier
Media : Microsoft Acces 2007
Primary key : vendid

Tabel 4
Women's Clothing Data Below

No	Field name	Type	Size	Description
1	Venidid	Text	8	Primery key
2	vendname	Text	30	-
3	Venaddr	Text	255	-
4	vendphone	Text	15	-
5	Vendfax	Text	15	-
6	Vendpic	Text	25	-

7	vendstatus	Number	Integer	-
8	venduserid	Text	10	-

e.Incoming Goods Data

Contains all women's clothing data on amarta nawa

File Name : Penjualan.mdb

Name_table : tr_masuk

Media : Microsoft Acces 2007

Primary key : receivedid

Tabel 5
Data Supplier

No	Field name	Type	Size	Description
1	receivedid	Text	15	Primery key
2	receiveddate	Date/Time		-
3	receivenid	Text	8	-
4	receivedesc	Text	255	-
5	receiveqty	Number	Double	-
6	receiveuserid	Text	10	-

f. Data Sales

Contains all women's clothing data on amarta nawa

File Name : Penjualan.mdb

Name_table : Sales

Media : Microsoft Acces 2007

Primary key : salesid

Tabel 6
Data Sales

No	Field name	Type	Size	Keterangan
1	Salesid	Text	15	Primery key
2	Salesdate	Date/Time		-
3	Salescutid	Text	8	-
4	Jumlahsalesqty	Number	Double	-
5	Salesmount	Number	Double	-
6	Salesuserid	Text	10	-

2. Main Menu View, Program Input And Output (sort by stages from start to end)

Menu Login

Picture 21

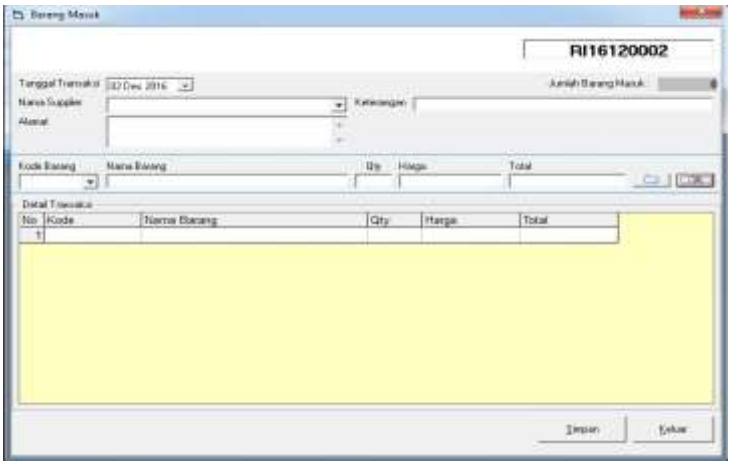
Main Menu

Picture 22

Menu Login **Main Menu**

Form Goods

Picture 23
Form Goods
Form Incoming Items



Picture 24
Form Incoming Items

3. Compile Program / Program End Result

Picture 25
Program End Result

Picture 26
Lap Customer List

Conclusion

From the discussion and observation of research, it can be concluded the following First, it takes a long time to modulate the inventory of goods, therefore it is necessary to improve through development methods such as HIPO and basic visual coding. Second, The lack of thoroughness in modulates every item entering and exiting, for that the need for a program of application of inventory.

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