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INVENTORY APPLICATION PROGRAM ON CV Y IN BANDUNG

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Abstract

Technology and Information are two things that cannot be separated today. This can be seen from the process to get information that can be obtained quickly, accurately, and accurately supported by increasingly sophisticated technological advances. This technological advancement makes many corporate agencies engaged in pawnshops use computer-based technology and networks to help their work because it is effective and efficient. Design of computer programs that the author made, it will soon be known what are the transactions without long in opening the documents. If the calculation process is applied computerized within the company, then the process will be very easy, automatically calculated and programmed so as not to waste a long time. Because the results of this programming process will be good in the office work cycle every day and very effective and efficient. The process of storage and input that is done dangan a programming that the author makes easy Pawnshop Prima Pawn in the process of data collection. In addition, citations also support the development of information technology..

Introduction

Technology and Information are two things that cannot be separated today. This can be seen from the process to get information that can be obtained quickly, accurately, and accurately supported by increasingly sophisticated technological advances (Brynjolfsson & McAfee, 2014). This technological advancement makes many corporate agencies engaged in pawnshops use computer-based technology and networks to help their work because it is effective and efficient (Anhar, Advinda, & Hariati, 2017).

Companies that have used computerized systems in processing their data. Prima Gadai itself is one of the companies that have a complete system but in the processing of data is still done manually, which requires all data to be processed properly, stored neatly (Munthe, 2015).

Prima Gadai itself for data processing is still applying manual methods such as inputting consumer data and repayment on pawnshops. These processes have their own complexities related to the facilities that are available (Benjamin, 2014). It also raises a variety of other problems such as the process of delivering reports that are not timely, the volume of data released is quite large, data searches that take a long time, and will make it difficult for users in

reports and consumer data collection due to too much data (Rauber & Rünger, 2013). Therefore, many pawnshop companies are looking for solutions to improve quality and quality by adapting to technology development that is very related to these companies. One form of information technology needed to support the success of achievement is computers, where the role of computers has become a vital part of activities in facilitating work. Computerized systems are the answer to technological breakthroughs in the problem-solving problems that exist in Prima Gadai in consumer data collection today (Kuper, Libkin, & Paredaens, 2013).

Methods

The research was conducted at CV Y in Bandung research method using qualitative deriktif. Data obtained from interview data sources obtained from documents and informants. Research informants are managers, staff and primary documents from CV Y in Bandung. Data analysis is carried out with interactive technical analysis, which includes data collection, data presentation, data reduction and conclusion making.

Based on the data collected related to the problem. The data can be grouped into two types of data, namely:

1. Primary data

   Primary data is data obtained from research objects to collect the data needed by the author using various means, among others:

   a. Interview / Interview

      Data collection method by conducting question and answer systemically and based on the purpose of discussion

   b. Observation

      Data collection techniques by observing directly in prima pawn

2. Secondary Data

   Secondary data is data obtained indirectly that can be obtained through books or websites related to the problems faced today.

Results and Discussion

A. System Design

System design consists of ERD, normalization, HIPO structure, program flowchart and program display design (Jayanti & Sumiari, 2018).

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 (Yasin, Zarlis, & Nasution, 2018).

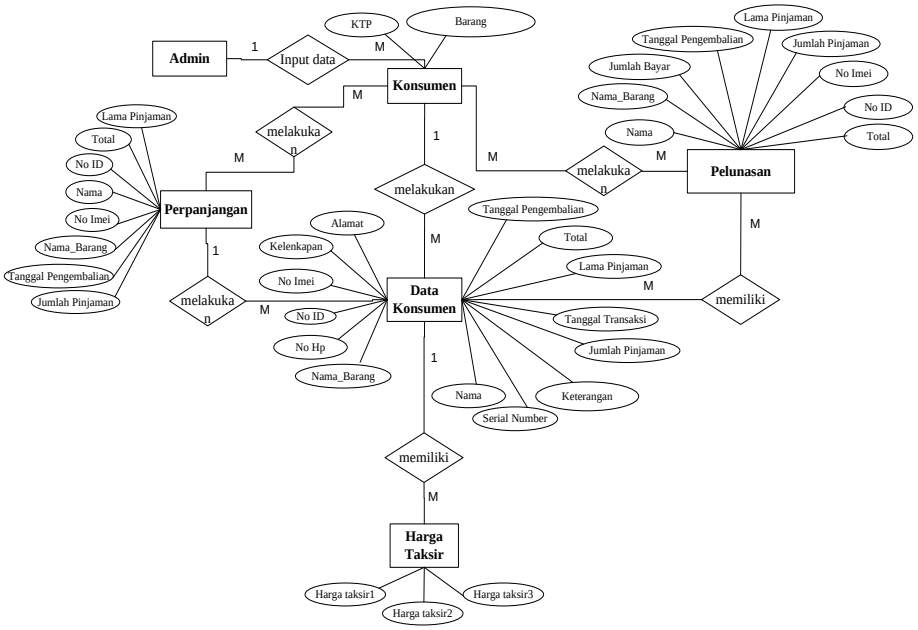

Figure 1
Entity Relationship Diagram (ERD)

a.Normalization

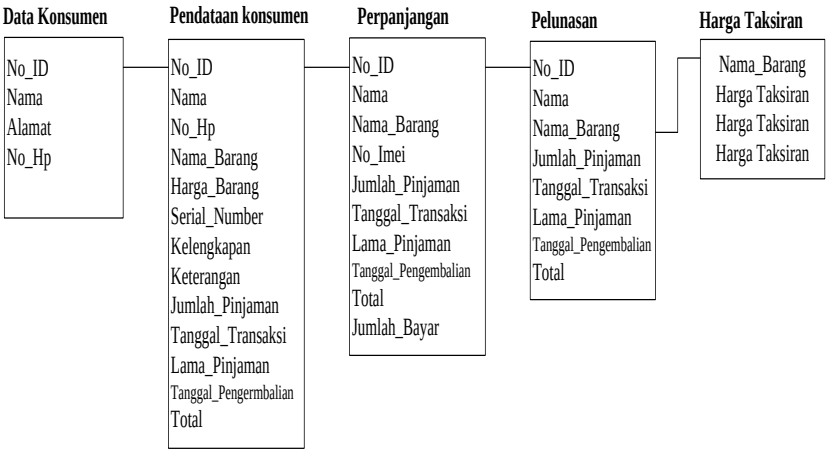

Figure 2
Second *Normal Form* (Von Zur Gathen, 2014)

1) Structure HIPO

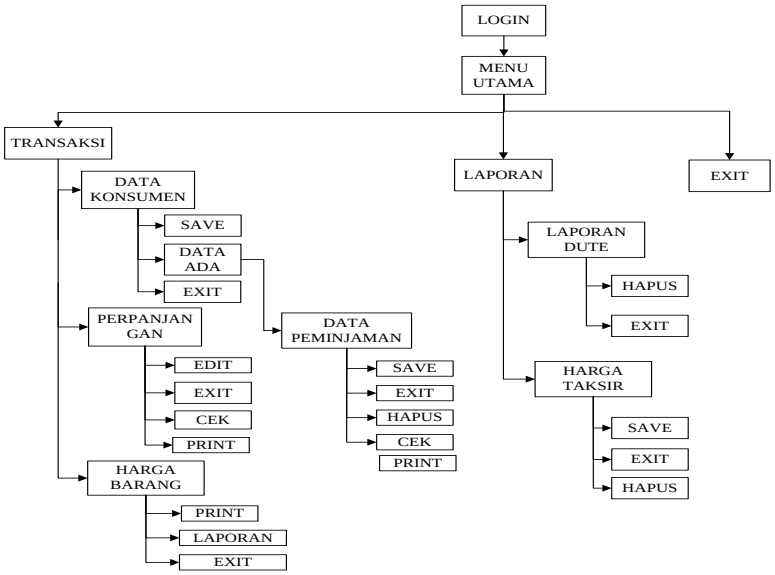

Figure 3
HYPO Structure

2. Flowchart Program
a.*Flowchart Login* dan Main Menu

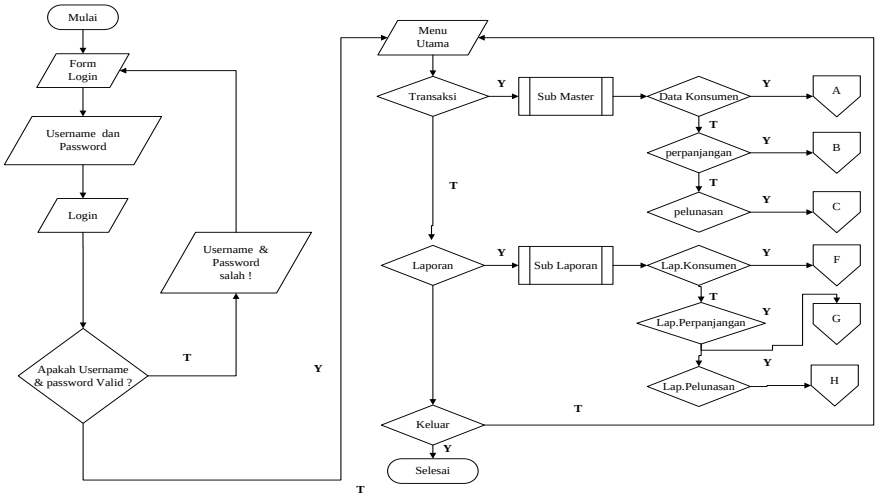

Figure 4
Flowcart Login and Main Menu

b. *Flowchart* Consumer Data

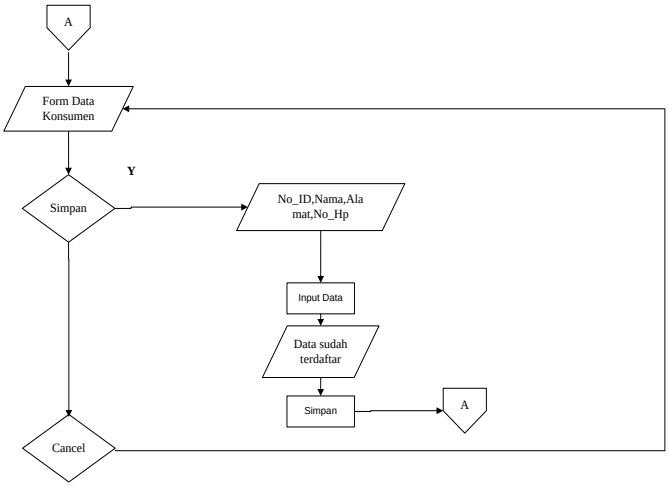

Figure 5
Flowcart Data Menu Contingency

c.*Flowchar Consumer Loan Data Menu*

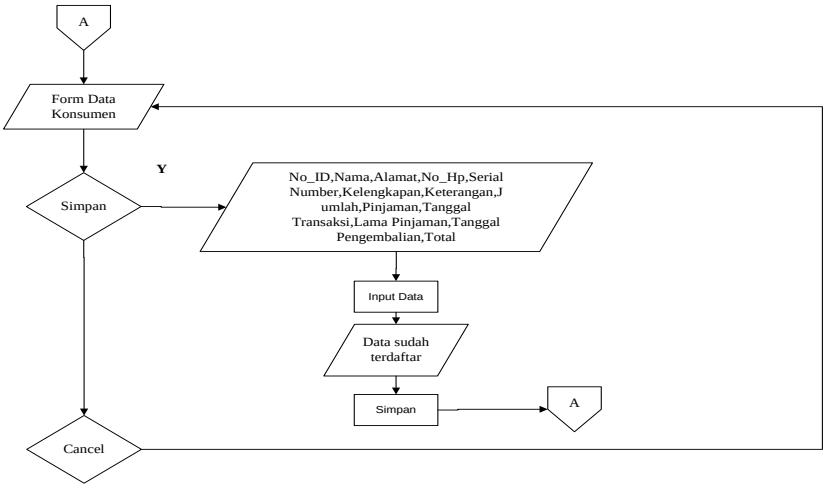

Figure 6
Flowcart Data Menu Loan Contingency

d. *Flowchart* Menu Extension

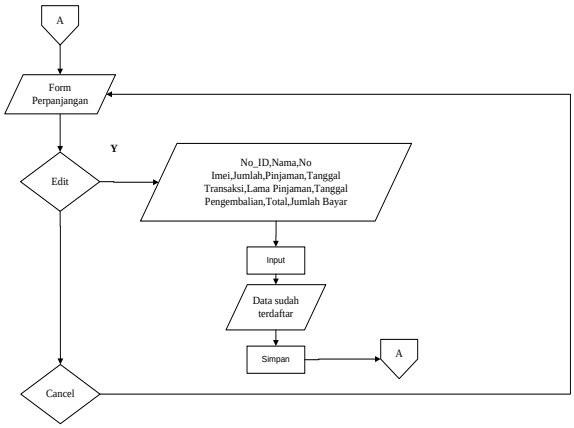

Figure 7
Flowchart Menu Extension

e.*Flowchart* Repayment Menu

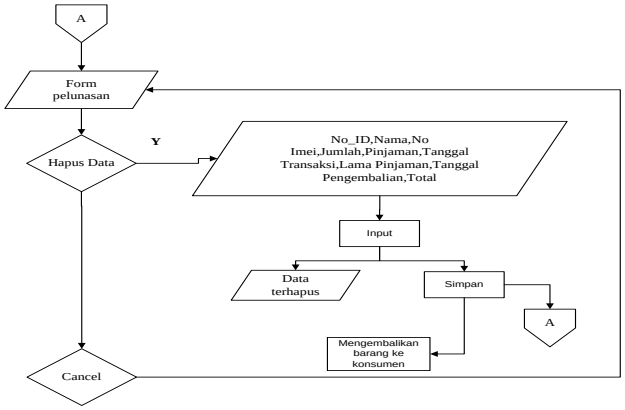

Figure 8
Flowcart Repayment Menu

f. *Flowchart* Menu Harga Taksir

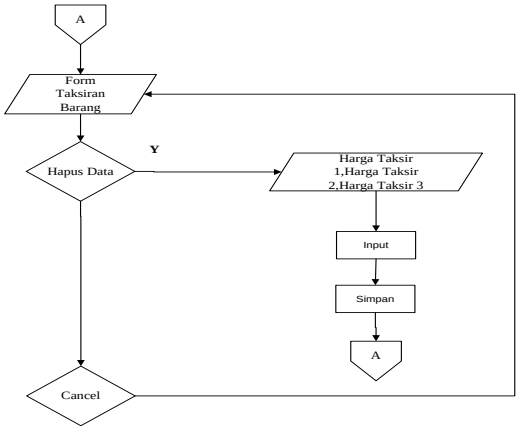

Figure 9
Flowcart Menu Estimated Prices

B. Implementation

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

Relationships Between Tables

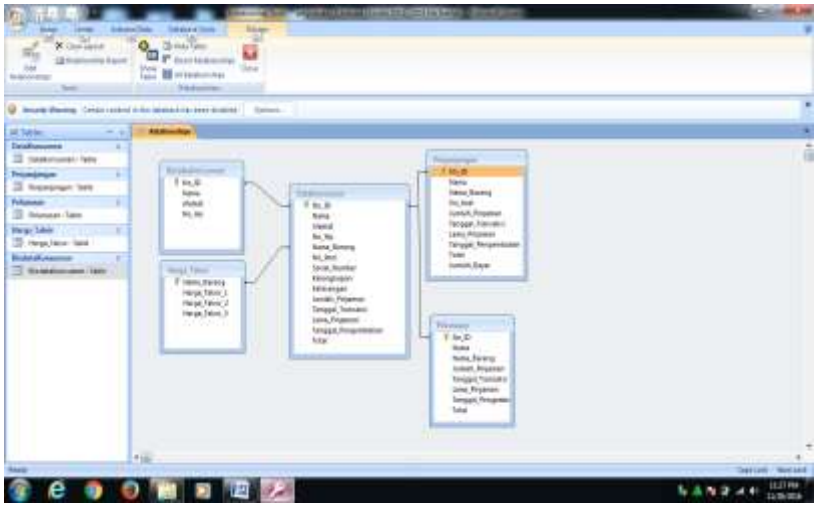

Diagram 17 Relationships Between Tables

Figure 10
Relationships Between Tables

1. Database Structure

The database used in the creation of the Prima Gadai Bekasi Consumer Data Collection Application Program is using Microsoft Access 2007 and databases (Widodo & Kurnianingtyas, 2017).

Table 2
Consumer Data Table

Field	Data Type	Size
No ID	Autonumber	6
Nama	Text	50
Alamat	Text	150
No HP	Text	12

Table 3
Consumer Data Collection Table

Field	Data Type	Size
No ID	Autonumber	6
Nama	Text	60
Alamat	Text	160
No HP	Text	12
Nama Barang	Text	20
No IMEI	Text	12
Serial Number	Text	12
Kelengkapan	Text	100
Keterangan	Text	100
Jumlah Pinjaman	Number	Long Integer
Tanggal Transaksi	Date/Time	-
Lama Pinjaman	Number	Long Integer
Tanggal Pengembalian	Date/Time	-
Total	Number	Long Integer

2. Main Menu, Input and Output Display

a. Login

Figure 11
Login Input Form

b. Main Menu View

Figure 12
Main Menu Form Consumer Data Input

c. Login Data Input

Figure 13
Consumer Data Form

d. Consumer Renewal Input

Figure 14
Consumer Renewal Form

e. Consumer Repayment Input

Figure 15
Consumer Repayment Form

f. Pawn Data Report

Figure 16
Pawn Report Form

Conclusion

The conclusions are as follows: First, with the design of computer programs that the author made, it will soon be known what are the transactions without long in opening the documents. Second, If the calculation process is applied computerized within the company, then the process will be very easy, automatically calculated and programmed so as not to waste a long time. Because the results of this programming process will be good in the office work cycle every day and very effective and efficient. Third, the process of storage and input that is done dangan a programming that the author makes easy Pawnshop Prima Pawn in the process of data collection. In addition, citations also support the development of information technology.

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