



# Inventory Processing Information System Design at PT. Alfa Scorpil Medan With Fixed Rate Method

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## ABSTRACT

Advances in the field of technology are developing rapidly, especially advances in the fields of computers and telecommunications. Information technology is used to accelerate and increase the availability of appropriate and accurate information and also to support the quality of processes and products that are more effective and efficient in organizations. Likewise with PT. Alfa Scorpil Medan is a company engaged in the sale and service of motorcycles where this company really needs a good computerized system to process company data. So far, companies have used computers but still use standard applications such as Word and Excel, so that obstacles and obstacles often occur, especially if there is a lot of data to be processed, it will take a long time, effort and thought. By still using a system like this, companies on every day/period often have difficulty processing existing data to turn the data into a good report. The main goal of developing this system is to provide alternative solutions that are more effective and useful in facilitating users in run and operate the system at the company so it doesn't take a long time. The method of using the system used in designing and making the Accounting Information System program at PT. Alfa Scorpil Medan is designed with the Java programming language with MySQL Server Database. This application consists of features that make it easier for admins to use the system. The use of the Java program is expected to help reduce weaknesses in the accounting data processing system at PT. Alfa Scorpil Medan and simplify the performance of the company.

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## 1. INTRODUCTION

Inventory or supplies are stored materials or goods that will be used to fulfill certain purposes, for example for the production or assembly process (Rufaidah & Fatakh, 2018), (Yedida & Ulkhaq, 2017), for resale, and for parts of equipment. Inventory can be in the form of raw materials, supporting materials, work in progress, finished goods, or spare parts (Cape, 2019), (Riani, 2016).

Good inventory management is very important for a company. On the one hand, reducing inventory costs by reducing inventory levels can be done by companies (Vikaliana et al., 2020), but

on the other hand, consumers will be dissatisfied if a product is out of stock. Therefore, a balance between inventory investment and the level of service to consumers must be achieved (Jalil et al., 2020), (Irwan, 2013)

In this fixed rate method, depreciation is determined by allocating the acquisition cost as a percentage of the book value for each accounting period. There are two ways, namely the sum of the annual figures and the double declining balance method (Sari, 2018), (Sihombing, 2016).

PT Alfa Scorpii or called Alfa Scorpii in this standard guideline has been in the automotive business world for more than 20 years as a main dealer for YAMAHA brand motorcycles. (WULANDARI, 2019), (Calvin, 2020). Its service coverage is centered in the northern part of Sumatra (for now it has entered 4 provinces, namely: North Sumatra, NAD, Riau Mainland and Riau Archipelago). Success certainly does not come just like that. With a core army of no more than 10 people in the first year, Alfa Scorpii then cultivates intuition and vision with struggle and action (Jamil, 2022), (Novera, 2020).

In a company, there are always fixed assets to carry out its operations. Fixed assets have an important position in the company because they require large amounts and are embedded for a long time. Because of the above, fixed assets must receive adequate attention from the management and all accounting treatment for fixed assets must be in accordance with the Statement of Financial Accounting Standards which is the basis/concept that serves as a guide in assessing, recording and presenting assets, liabilities and company capital from the balance sheet and determine the costs and revenues in the company's profit or loss (Mayangsari & Nurjanah, 2018).

## **2. RESEARCH METHOD**

### **2.1 Existing System Analysis**

Is a method that is carried out by conducting direct studies in the field to collect data, namely direct observation to the study location. The data collection techniques carried out by the author are:

a. Observation

Is one method of data collection that is quite effective for studying a system. Its activities by direct observation to PT. Alfa Scorpii Medan.

b. Sample

Taking samples of the necessary data such as asking directly to the employees of the inventory department of PT. Alfa Scorpii Medan.

c. Interview

The author collects data related to inventory data collection by conducting direct interviews with employees of the inventory department at PT. Alfa Scorpii Medan. The questions that the authors ask are as follows: What are the procedures implemented by PT. Alfa Scorpii Medan in collecting inventory data?

### **2.2 Library Studies (Library Research)**

The author conducted a literature study to obtain data related to thesis writing from various reading sources such as guidebooks for making MySQL database processing applications with Java, database management, and books or journals that discuss the concept of making inventory accounting.

### **2.3 Research sites**

This research was conducted at PT. Alfa Scorpii Medan Jl H Adam Malik 34, Selalas, West Medan.

## **3. RESULTS AND DISCUSSIONS**

### **3.1 Results Display**

The following describes the display of the results of the Inventory Processing Information System Design at PT. Alfa Scorpii Medan With Fixed Rate Method can be seen as follows:

a. Login Form display

The display of the form for logging in to enter the system is shown in Figure 1 below

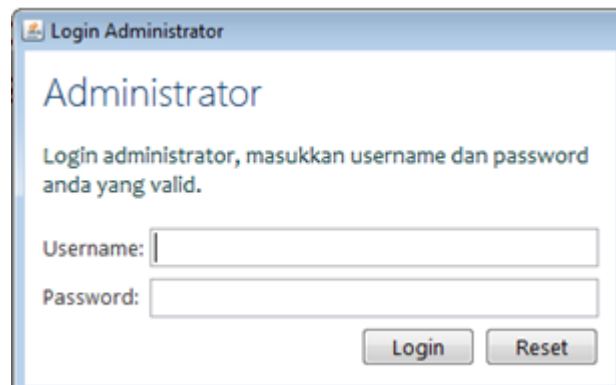


Figure 1.Login Form display

b. Display of Inventory Supplier Data Form

The form display for processing inventory supplier data to enter the system is shown in Figure 2 below:

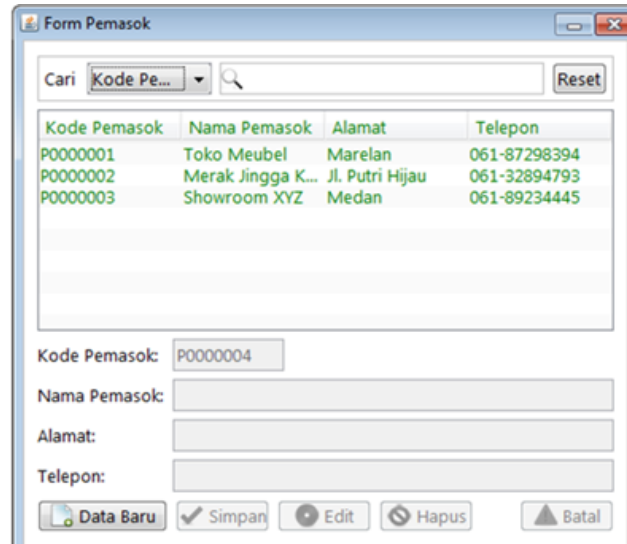


Figure 2.Display of Inventory Supplier Data Form

c. View of Room Data Form

The form display for processing room data on the system is shown in Figure 3 below:

No Ruangan	Nama Ruangan	Penanggun Ja...	Keterangan
R0001	Ruang Kasir	ABC	-
R0002	Ruang Manager	ZYZ	-
R0003	Ruang Teknisi	PQR	-

Figure 3.View of Room Data Form

d. Goods Data Form Display

The form display for processing goods data on the system is shown in Figure 4 below:

Kode Barang	Nama Barang	Keterangan	Persediaan
BR000001	Komputer	-	1
BR000002	Meja	-	1
BR000003	Printer	-	3
BR000004	Kursi	-	3
BR000005	Mobil	-	1
BR000006	Lemari	Besi	0

Figure 4.Goods Data Form Display

e. Display Inventory Purchase Data Form

The form display for processing inventory purchase data on the system is shown in Figure 5 below:

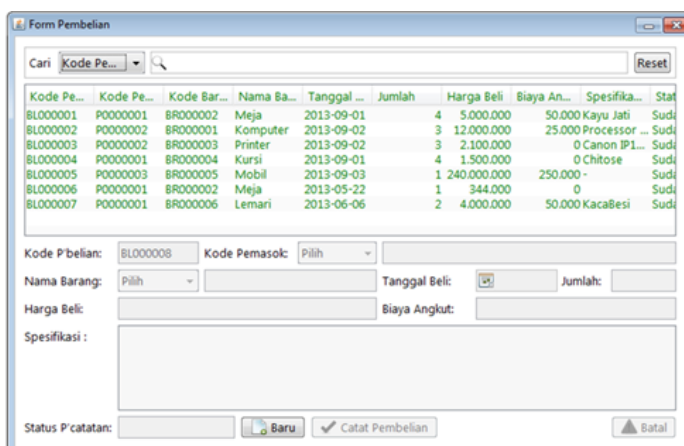


Figure 5.View Inventory Purchase Form

f. Display Asset Data Form

The form display for processing asset data on the system is shown in Figure 6 below:

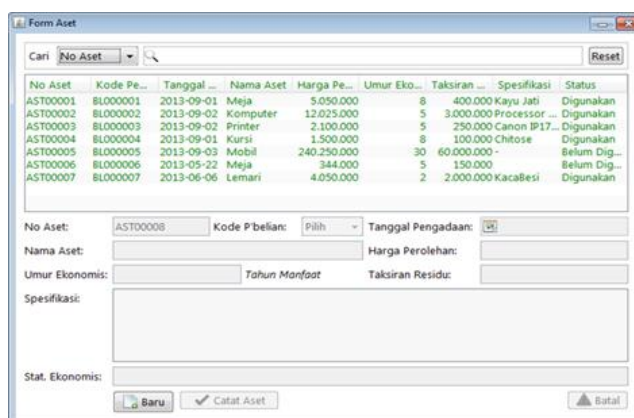


Figure 6.Asset Form Display

g. Display Inventory Data Form

The form display for processing inventory data on the system is shown in Figure 7 below:

No Inventaris	No Aset	No Ruangan	Tanggal Pakai	Kondisi	Jumlah
INV/09/2013/010	AST00001	R0001	2013-09-10	Baik	1
INV/09/2013/010	AST00001	R0002	2013-09-10	Baik	1
INV/09/2013/010	AST00001	R0003	2013-09-10	Baik	2
INV/09/2013/010	AST00002	R0003	2013-09-10	Baik	2
INV/09/2013/010	AST00003	R0003	2013-09-10	Baik	2
INV/09/2013/010	AST00004	R0001	2013-09-10	Baik	1
INV/09/2013/010	AST00002	R0001	2013-09-10	Baik	2
INV/09/2013/010	AST00007	R0002	2013-06-07	Baik	1
INV/09/2013/010	AST00007	R0001	2013-06-07	Baik	1

Figure 7. Inventory Form view

f. Display of Unused Asset Sales Data Form

The form display for processing unused asset sales data on the system is shown in Figure 8 below:

Kode Jual	No Aset	Tanggal	Kepada	Harga Perolehan	Akumulasi Penyusutan	Harga Jual
J0000001	AST00001	2013-09-13	Agus Perabot	5.050.000	457.260	300.000

Figure 8. Display of the Unused Asset Sales Form

g. Display of Asset Depreciation Recording Data Form

The form display for processing the data for recording asset depreciation on the system is shown in Figure 9 below:

Figure 9. Display of Asset Depreciation Recording Data Form

### 3.2 Discussion

The discussion of the system aims to ensure that the system is ready to use. The instrument used to carry out this test is by using:

- One unit of laptop or PC with the following specifications: Intel Core I3 Processor, 2 Gb Memory, 500 Gb Hard Drive
- Software with the following specifications: Java, Netbeans IDE 7.3, iReport 5.0.1, MySQL 10.2.

After testing the system, it can be concluded that the results obtained are: Performance becomes more attractive, the system provides more accurate information, system security is quite guaranteed from the risk of hacking with techniques that hackers usually do.

### 4. CONCLUSION

From the results of the author's research, several conclusions can be drawn, including: The system that has been designed can manage the data obtained to be more complete and accurate. Presentation in making reports more effective and efficient. Physical checking of goods data with reports of goods in and out so that there is no accumulation of goods. Increasing company performance in processing company inventory data. The creation of an inventory accounting data processing information system at PT. Alfa Scorpii Medan improve employee performance. It is easy to see the company's financial condition which includes inventory reports, incoming goods reports, outgoing goods reports, transaction journals and ledgers to increase the company's inventory activities.

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