Desktop Based Application for Inventory Management

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Abstract. The purpose of this research is to describe the importance of inventory management software. This research was conducted to solve the problem that was happening at a certain company in Bandung. This study used descriptive qualitative method with the company as a case study, the first stage was to collect the necessary data, processing it, and then discussing it to reach a conclusion. The results of this study are obtained data such as the name of the borrower, the date of the loan, the date of return. From the current problem, the inventory management system is important in companies in order to manage items effectively thus increasing the productivity of the company.

1. Introduction

Inventory is goods owned by the company to support employees in carrying out work. Inventory is important for the survival of a company. In good inventory management, inventory usage or borrowing must be documented. PT. Wahana Solusi Sakti lending process or the use of inventory tools has not been documented if there is a loss of items the staff must ask everyone who often borrows the item. With technological advancements, inventory and organizational problems can be handled effectively and provide an increase in the ability to produce faster goods, have greater quality. Production planning, inventory management, and scheduling have become a strategic and clear benefit that happens to the mid-1980s [1].

At every company, it is important to have effective inventory management because if the inventory system is ineffective it will cause loss of consumers and decreased sales. The company's performance will be directly affected and generate more sales if inventory management is carried out effectively. Therefore, companies need systematic inventory management and are managed by employees who have expertise in this field [2]. If a company has poor inventory management it will threaten the survival of the company such as excess inventory and spent a lot of physical space, allowing increased inventory damage, damage, and spoilage. Therefore, inventory management becomes an important part that must be considered by the company [3].

Developing policies that will achieve optimal inventory is the goal of inventory management. Companies have a business risk by optimally managing inventory and can maximize returns, and minimize liquidity [4]. Good inventory management has become crucial to businesses as they seek to continually improve their customer service and profit margins, in the heat of global competition and demand variability [5]. Managing accounts receivable, inventory, and debt effectively is a capability needed by any business. This is important from the standpoint of profitability and liquidity. If there is poor working capital management, the company will unable to invest and it also reduces the company's liquidity. This will affect the company's profitability. In most large cases, it was shown that unnecessary funds are linked to inventory, which is an important element of current assets. To avoid unnecessary investments, managing inventory must be taken care of efficiently. Serious problems
were related to long-term profitability and possible bankruptcy must be faced by companies that ignore inventory management. A company can reduce its inventory level to significantly with better inventory management [6].

The purpose of this research is to describe the importance of inventory management software. This research used a descriptive qualitative method with PT. Wahana Solusi Sakti as the case study. The first stage was collecting the necessary data, and in the next stage was processing and discussing to a conclusion.

2. Method
The research method used in this study was to use a method that was descriptive in the case approach at PT. Wahana Solusi Sakti which was a method in which the first stage was collecting the necessary data, and in the next stage was processing and discussing to a conclusion.

3. Results and Discussion
Inventory management software has been used by many companies. This software is useful in improving company performance in documenting loan inventories. The use of inventory management software also makes it easier for the person in charge of inventory to manage inventory [7-10]. The main page of the software is shown in Figure 1.

![Figure 1. Main Page](image)

Figure 2 is the main menu. In order to access the desired page, users must click the button to access another page. There are two buttons in the main menu, List item button, and an Inventory report button. The item list page functions to register items and see the list of items that have been registered. While the inventory report page functions to find out the items that are being borrowed (see Figure 2).
There is a menu item display menu. We can see a list of items that have been registered. To register an item, the user must click the add button as shown in Figure 3.

If you want to change the data, the user must select the desired data in the table then click the edit button and the results as shown in Figure 4.
If you want to delete the data, the user must select the desired data in the table then click the delete button and the results are shown in Figure 5.

**Figure 4. Edit**

**Figure 5. Delete**
The data will be updated and stored in the database. In order to access the information, the user has to go to the Report Inventory menu available in the Main menu, the display of the Report Inventory menu is shown in Figure 6. The inventory report is useful for controlling inventory usage.

4. Conclusion
With a desktop-based inventory application, it is easier for everyone to get information about inventory. The information displayed in the application facilitates users to register goods and make inventory reports. It is expected that the inventory application will make it easier for users to manage inventory.

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