# Web Based Online Inventory Information System



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# Web Based Online Inventory Information System

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**Abstract.** This study aims to show the use of a web-based online inventory system to maximize human performance in the work process in companies. This study used descriptive method by reading related literatures. From this research, show about web-based online inventory system is an innovation in facilitating the management of goods, helping to make complicated things easier, this is good news for large companies in running their businesses, no wonder many companies are using online inventory systems to help work. Companies that use online inventory systems are competing in developing their existing inventory systems so they can better support the company's work.

## 1. Introduction

With the rapid development of technology, a lot of works could be done easier and faster. For example are entrepreneurs. They use technology to help and improve the quality of their business. The progress of a nation is influenced by how many entrepreneurs the nation has and how much positive contribution an entrepreneur makes for the development and progress [1]. Web-based online inventory information system is an innovation in making it easier for humans to control and receive information. The system is needed to get accurate information clearly, fast, and concrete [2]. The use of information technology has a significant effect. [3] In this case, accurate software can help to speed up company performance in generating desired information. Some companies define inventory as goods or resources [4].

The inventory is an activity consisting of goods data entry, data return, and inventory data that reports all transactions. Inventory function is to store in a place [5]. Web services allow centralized database that improve sales management. Therefore, central inventory managers can communicate with employees to obtain information [6].

Many companies use a web-based online inventory system because this system saves a lot of time, energy, or large costs. Web-based online inventory system is designed with a barcode reader platform. This system can be applied on the internet. The inventory system is developed following the business process flow. Inventory management is a vital function to help ensure the success of manufacturing and distribution companies. The effectiveness of inventory management systems is measured directly by how successful a company is in providing high-level customer service, low inventory investment, maximum throughput, and low costs [7].

The function of the inventory system is to be able to meet the anticipated customer demand. Besides, inventory is expected to maintain customer satisfaction, the second is to separate various parts or production components. Therefore, problems can be avoided from fluctuations because there has been

additional inventory to separate the production operations process from suppliers [8]. The benefit of the web-based online inventory system are many, namely make it easier for companies to monitor current stock positions, makes it easier for companies to make reports or information about the product, and makes it easy for companies to make more goods to be stocked [9]. Information technology helps people to do anything through the internet [10]. In this case, the company is in need of information technology systems to have a significant influence on the effectiveness of the company in developing its business [11].

This study aims to show the use of a web-based online inventory system to maximize human performance in the work process in companies. This study used descriptive method by reading related literatures.

## 2. Method

This method used descriptive method and technology tools such as computers and software that has been specifically designed to support the online inventory system.

## 3. Results and Discussion

In a company, the amount of inventory recorded with those in the field must always be the same. To do this, we need an application that will help to monitor the inventory. The following figure is a sample image of an online web-based inventory system application program.

This is the front view of an online inventory system application where there is a place to enter identities such as names and passwords. When entered in the application or website, it will generally appear as shown in the picture. This menu is the most important thing because the key to enter the system must go through this menu where identity is needed (see Figure 1).

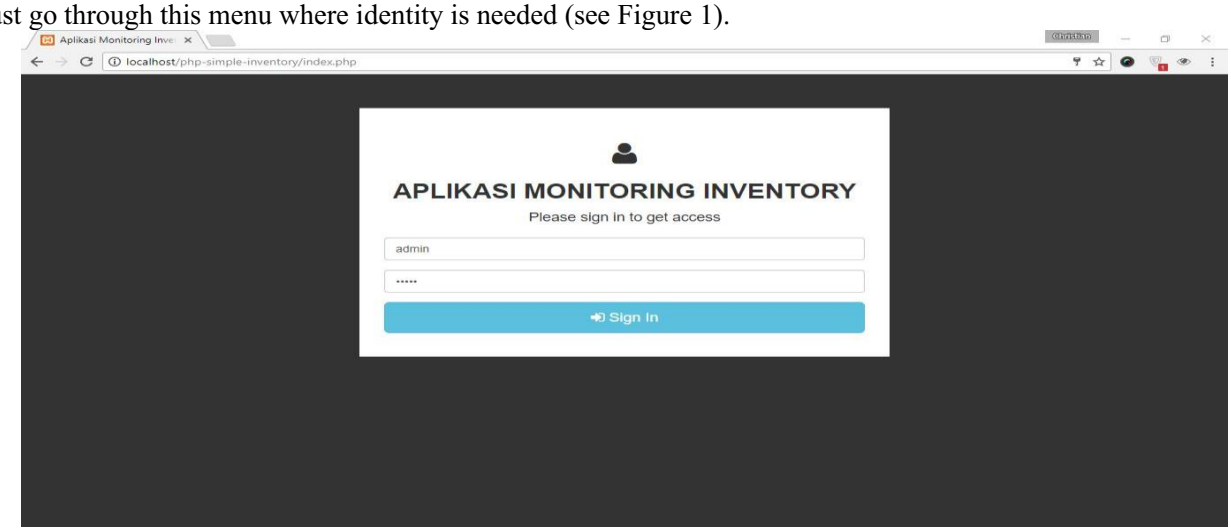


**Figure 1.** Display Login

After the user logs in, there will be a Data Master menu that is useful for recording the inventory. All inventory and division data recorded in this menu will be used in the following menus. When the user successfully entered the menu, the user will be able to use other work features, such as pictures (see Figure 2).

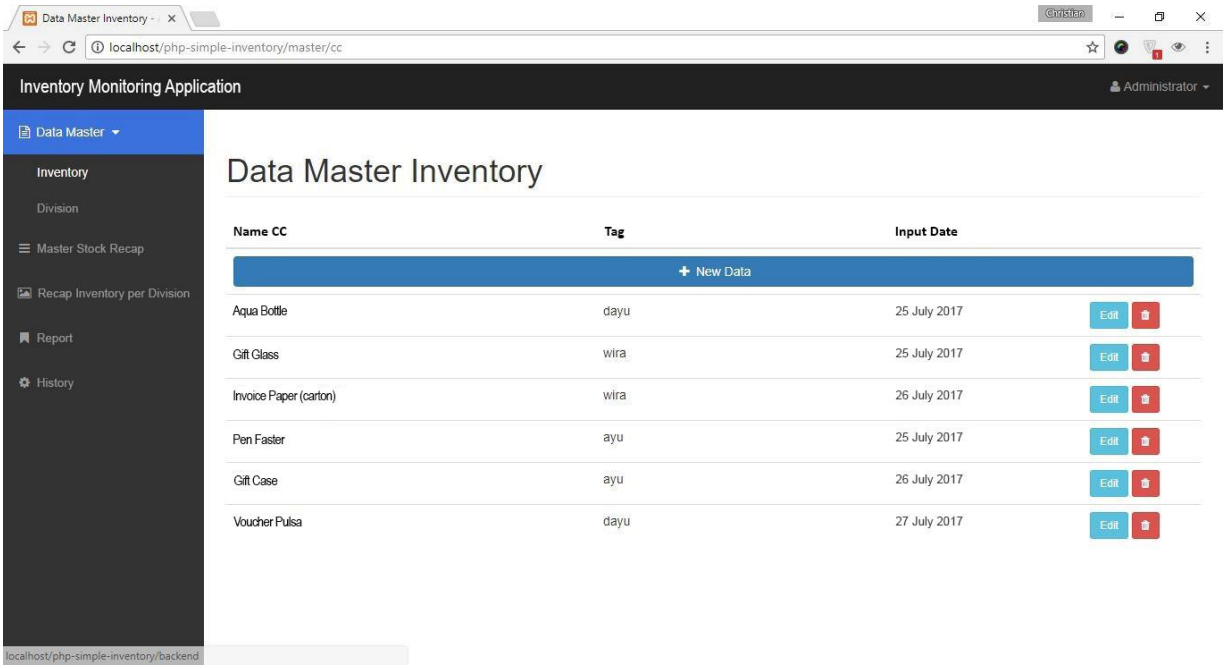


**Figure 2.** Data Master

All inventory that has been recorded in the master data will appear on this page. The initial stock for newly registered inventory is 0. However, it will continue to be updated in the "Receive Goods" menu. Any recorded revenue data will immediately update the amount of stock in the inventory. Besides recording the receipt, in this menu the user can also record the amount of inventory sent to other divisions. The data of receiving and sending are recorded and can be seen in the Details menu (see Figure 3).

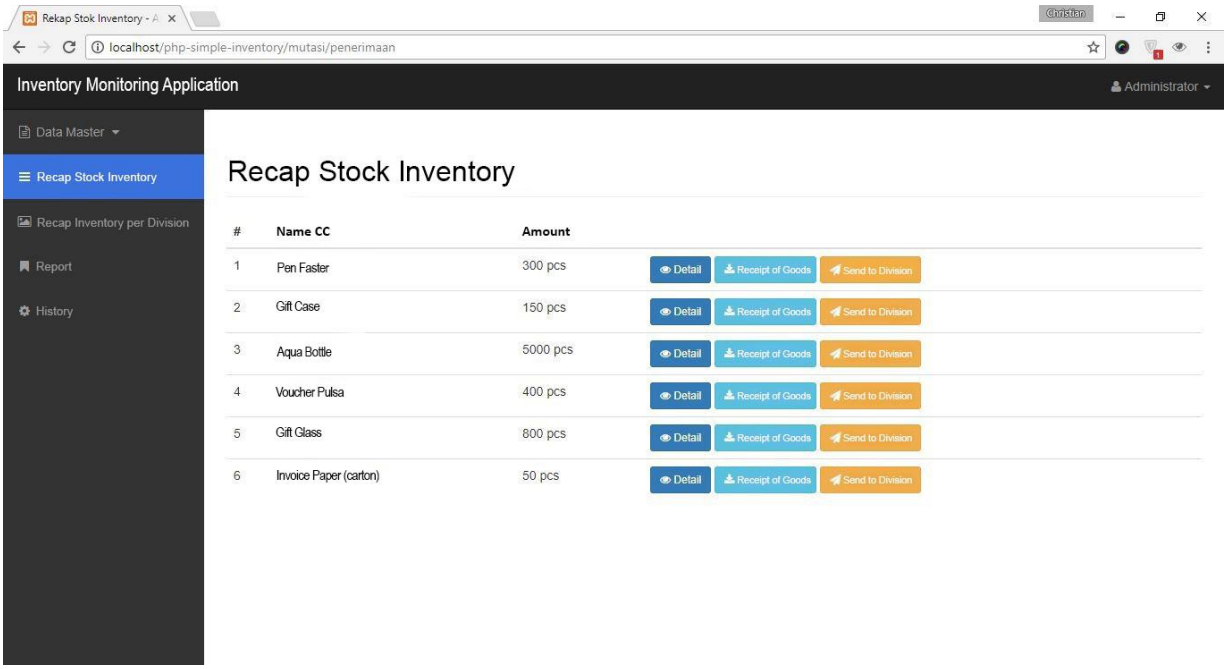


**Figure 3.** Recapitulation Stock Inventory

In this menu the notes are divided per division. Each division has a detailed inventory of each inventory. The data will increase if there is inventory sending in the previous menu (see Figure 4).

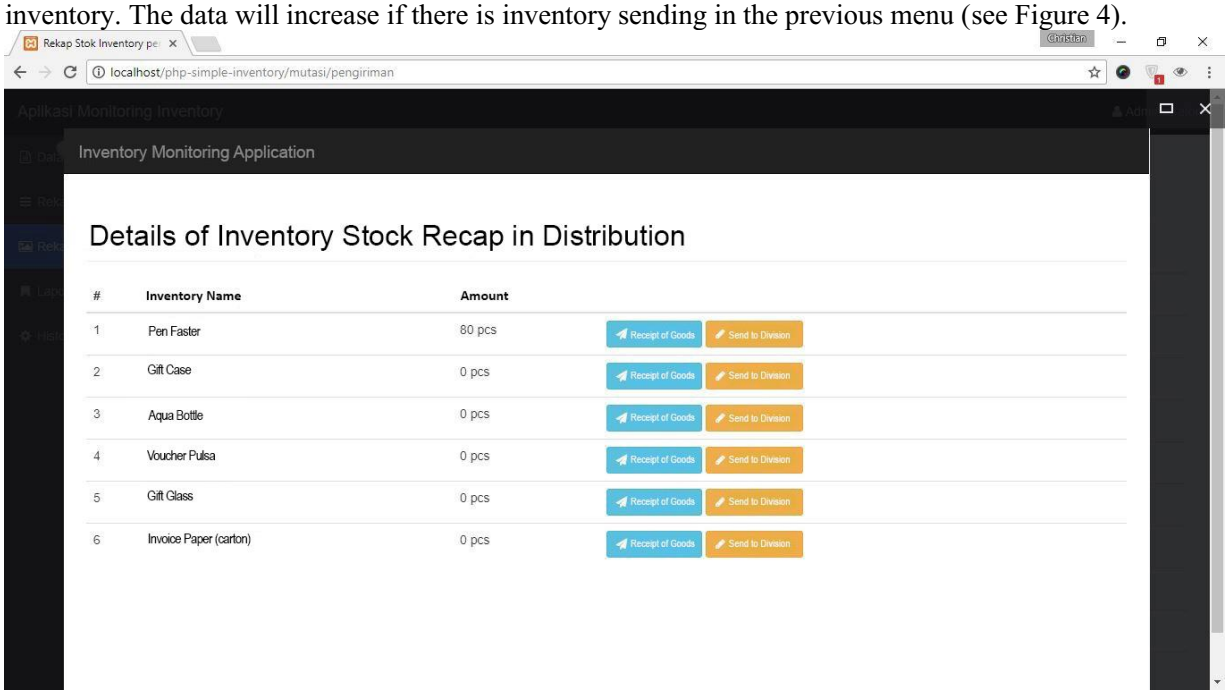


**Figure 4** Recapitulation Stock in Distribution

If this application has been used for a certain period, the amount of data will be quite a lot. Users can view recap reports of inventory income in the Division. If the user want to see it in a more detailed format, then all records will be displayed in sequence to see the movement of stock more clearly (see Figure 5).

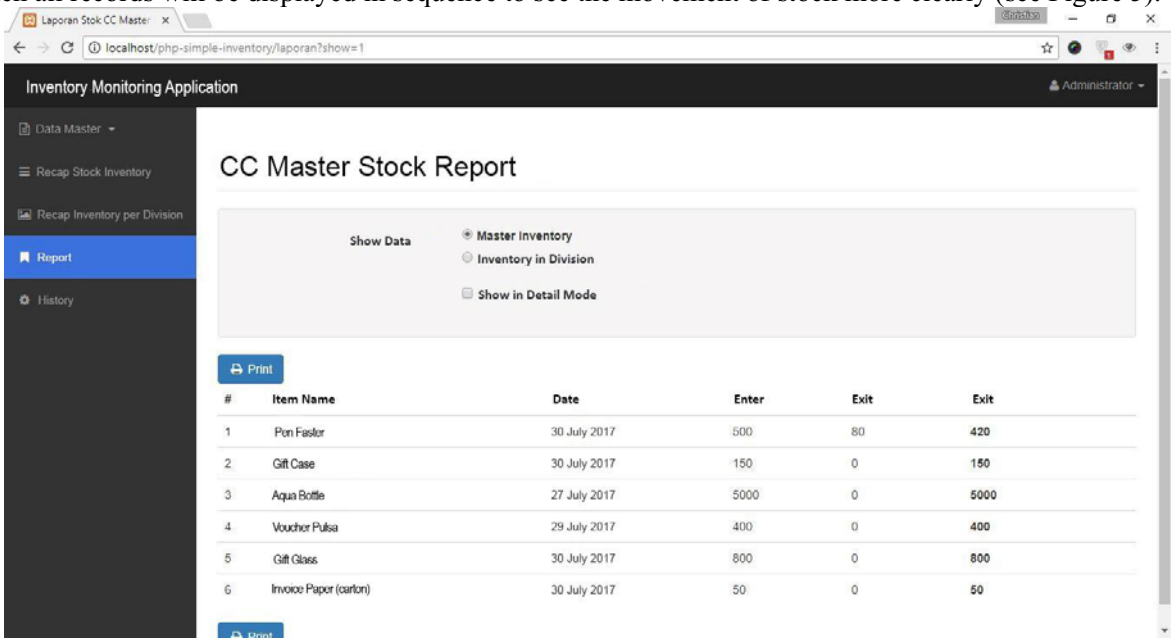


**Figure 5.** Inventory Reports on Masters and Divis

Inventory calculation is done one by one from the earliest data to the end, so that if done continuously it will affect the application performance. To overcome this, the inventory recap data must be closed in a certain period of time. All data recap will be recorded in this menu and can be accessed at any time. Period data that has been created cannot be changed anymore (see Figure 6).

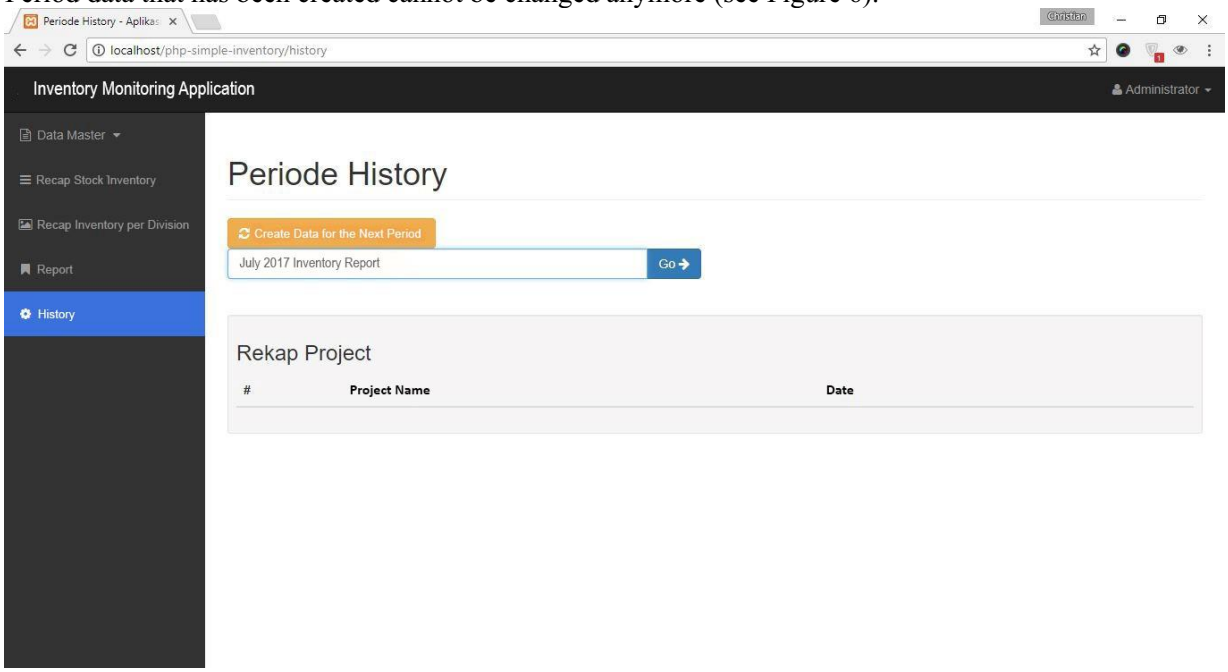


**Figure 6.** Periode History

## 4. Conclusion

Web-based online inventory system is an innovation from humans as an effort to build an application that will help companies. It can be used in the fields of industry, business or company. Web-based online inventory system is still the company's best partner in carrying out the company's mission. Therefore, we can save energy and cost.

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