# Design of Information Systems Inventory Inventory In Sinar Sakti Racing Industry Based Web

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| ARTICLEINFO | ABSTRACT |
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| | *Inventory Information System Design is a design system that supplies information to many process that consists of stock, inventory and reports. Therefore, it is necessary to make the Inventory Information System applications to support the company's performance manual was originally turned into a computerized system to generate reports that more rinci.Pengembangan applications is done by collecting data, system planning, system analysis, system design and development base data.Pemrograman applications developed in PHP. Development of the database used is MySQL and scripts developed by Sublime.Dapat concluded that the design and implementation of information system in Company Sinar Sakti Inventory Insdustry Racing has its dikembangkan.Dengan designed this system in the Company Sinar Sakti Racing Industry,* |
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## 1.   Introduction

SSR Industries is a company engaged in the sale of accessories or parts for the bike. SSR Industry thrive in 2000 at which time it increased its sales of bicycles Mountain Bike makes SSR Industry in trust by a company with the brand GIANT from the country of Taiwan to hold the dealership or sole agent in Indonesia while the SSR Industries is a company terbersar in Indonesia in the field of factory but in the data management system still say pretty bad because they still rely on Microsoft Excel. The theory according to Information Systemsaccording Jogianto (2005: 2), the system is a collection of elements that interact to achieve a certain goal. It describes a system events and real unity, such as places, things and people who really exist and terjadi.Jadi in this case inventory system inventory information is very important in the company's Industrial SSR.

In this case the SSR Industry in managing the data is still using Mircosoft Excel applications, both in the daily report, monthly, or in this case the SSR tahunan.Padahal Industries is a company engaged in the largest bicycle accessories in Indonesia, but the data is still using the application pengalolaan Microsoft Excel.

## 2.   Literature review

### 2.1. Understanding Information Systems

"An information system is a set of hardware, software, data, human, and procedural components intented to provide the right of data and information to the right person at the right time." (William AndDavis, 2000: 20-21). According to William And Davissistem is a collection of information that Consist of hardware, data, people, and components that have the aim of presenting the right information and data to someone in need at the right time. Rainer and Cegielski explained that the information system is a component that consists of hardware, software, network, and user procedures that have the function of collecting, processing, storing, analyzing and disseminating information for a specific purpose (2011: 38-40). Meanwhile, according to Arief Wibowo, "Information system is an activity of organized procedures, when executed will provide information to support decision making and pengendallian in the

organization" (2008: 2). From the opinions above, it can be concluded that the information system is a collection of components that function to process data into a useful information for someone in need.

2.2. Explanation Inventory and Inventory

Inventory is the stock that the company needs to address the fluctuating demand. Inventories in the production process can be interpreted as idle resources, it is because these resources are still waiting and have not been used in the subsequent process. Inventory is often called the inventory is

Deposits raw goods, materials or finished goods are stored for use in future or within tertentu.Persediaan very important item in a company in the face of market changes in production and anticipate price changes in the demand for goods that much.

Understanding inventory / inventory is as berikut.Inventory are a number of good resources in the form of raw materials or finished goods provided by the company to meet the demand of konsumen.Sedangkan understanding of inventory in the other definition is a technique for the management of materials related to inventory.

## 3. Methodology

### a. Analysis System Running

In the data recording activities of goods and sales transactions during SSR Company Industry still use manual, where every checking stock of goods in and goods out typed in a file in Microsoft Excel. Likewise with the makingreport, still manually typed in Microsoft Excel     Files that contain the inventory data also serves Sebai evidence of details of the stock of goods, wares what is sold and at what price. The stages of the process of input into the inventory file, as follows:

a) Parts Warehouse receive data from the Supplier and shall record the data manually.

b) Then the warehouse will create inventory reports will be given to the manager and cashier,
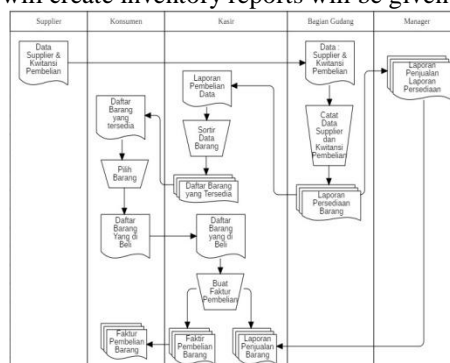


**Figure 1. Flowmap System Running**

### b. Weakness Analysis System Running

The analysis of the weaknesses of the current system aims to determine more clearly how the weaknesses of the system and know the problems faced by the system to be used as the design proposal sistem.Tahapan weakness analysis system should be undertaken prior to the design sistem.Tahapan this analysis is a very important stage in the designing a system. Analysis of system weaknesses were conducted to determine what the problems being faced by the research object.

The current system is defined as a system that is being used, while the analysis of weaknesses of the current system is defined as a way to understand in advance the problems faced by the system, such as defining the functional requirements of the system so that it can be seen what the needs of users who have not fulfilled by the current system.

Objective analysis of weaknesses in the system to determine the shape of the design of the system will be applied. The analysis can also specify steps to be made so that the design of the system design in accordance with the requirements of the user and the system has performance that is efficient and effective, can produce information quickly and accurately.

This time inventory data storage process is still using Microsoft Excel and stored on multiple computers by employees who collect inventory data so that the data collected is difficult and takes a long time. If the employee is not in the office, then the data can not be collated and printed as a report.

In addition, the printing process occurs over and over - again, because the information in the inventory must be in accordance with real data, if there are changes in the real data, the data items of goods must undergo rearrangements and back in print in the form of a report. This resulted in an increased workload of employees, takes a long time, high operating costs and inventory files over time will begin and replenish storage in a computer.

Functionally inventory inventory information system can increase sales and accelerate the process of managing inventory data, but not for a wider range because it depends on the branch companies available.

Based on the explanation of the analysis of the current system can be formulated some of the following:

a) *performance*

The process of recording information requires more time and effort because the cashier must print the same information for consumers.

b) *information*

Limited space in the data item, so that the information should be written sesingka this possible. Sometimes This makes the distortion of information.

c) *Control*

Goods Data sometimes just opened by the cashier only sehinnga the warehouse do not know the latest information from the cashier that causes less effective control of access.

d) *Efficiency*

Pencatatn manual process many spend a lot of time and make the buildup of paper documents and more storage space.

## 4. Discussion

### 4.1 Functional Needs Analysis System

1) The system was designed to record the inventory data and can perform (add, change, and delete) data according to access rights.
2) The system can inform the stock goods uptodate.
3) The system is designed to help speed up the process of delivering information inventory.
4) In the process of inputting inventory on information systems to be designed using the appropriate validation.
5) Speeding up the process pembutan inventory report daily, weekly and even monthly.

### 4.2 System design

The results of analysis of functional requirements described system uses sebgai use case diagram below:
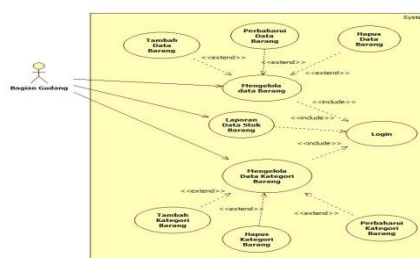


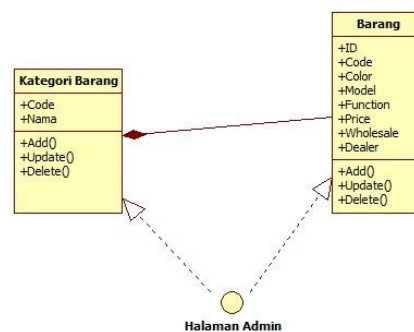**Figure 2.** Use Case Diagram invetory Information Systems and inventory

**Figure 3.** Class Diagram System

### 4.3  System implementation

Login page serves as a detection system users and safeguards against stock data barang.Pengguna login by entering your Username and Password. Each user will have different access rights depending.
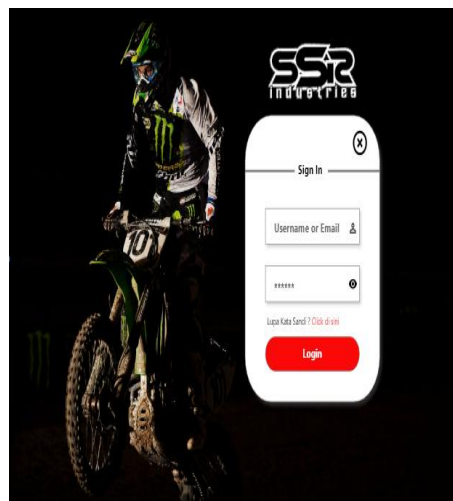


**Figure 4.**Login page

### a.    Design Page Admin

After login is successful it will display the tie admin page application system, the following picture admin page design:



**Figure 5.** Admin page

**b.    Design Guide Add Data Item**



**Figure 6.** Add Item page

**c.    See page designing Goods Data**



**Figure 7.** See page Goods Data

## 5.    Conclusion

Based on the formulation of the problem that has been discussed and engineering application of this inventory, storage process becomes more effective and avoid mistakes entering data items. Then with the integrated data management, user interface that makes it easy to manage all data items associated with reporting requirements, and ease of changing the data items, suppliers and categories of goods. This application also provides the facility to search for the data and the application inventoryini, allowing useruntuk check and view the report purchases, sales, and sales perkategori. With the application inventoryini, the user does not need to create reports,

## 6.    Reference

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