



An Analysis and Survey of Polishing Dents Warehouse Inventory Development

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Abstract

PT Setia Kiji Reed (SKR) was established in 1991, with its Jl address. Rancaekek Km. 24.5, Linggar, Kec. Rancaekek, Bandung Regency, West Java 40394 is a company that already uses computer technology in carrying out its business processes. This company is a joint venture between Japan (Kiji Reed Co. Ltd) and Indonesia, with business activities in the textile industry such as manufacturing and sales of reeds for weaving looms and material suppliers for air-jet reeds. The company has three divisions: Wirecut, Polishing Dents, and Reed Production. However, recording incoming and outgoing goods transactions at the Polishing Dents warehouse is not fully recorded in one application but is stored in various databases. Each punch-out or raw material from the supplier is stored in the warehouse as a raw material. These goods are processed through the production process into finished goods, held in the warehouse as finished goods for export. The data obtained in this study were collected by interview, observation, and literature study. Software development uses the Rapid Application Development (RAD) methodology and a system design approach through the Object-Oriented Approach with the Unified Modeling Language (UML). The results of this study are an inventory management information system that can support and manage inventory processes in the warehouse, such as controlling and monitoring goods, maintaining goods returns, assigning suppliers, and reporting.

Keywords: Warehouse, Inventory, Unified Modeling Language, Rapid Application Development.

1. Introduction

Today's advances in technological development bring many benefits to human work and companies whereby utilizing technology can facilitate human work and company business efforts. One technology widely used by society today is information technology (computers and telecommunications) [1]. Information technology that is increasing can be used to facilitate a job, the exchange of information becomes more accessible and faster, and the work done is more effective and efficient. Of course, information technology can improve a company's performance. One example of information technology in the business world is that information technology is used to process inventory data, especially in online and offline sales. The use of information systems by utilizing computer technology will save more time, not take up a lot of energy, and produce accurate data presentation [2] [3] [4].

PT Setia Kiji Reed (SKR) was established in 1991 with a location on Jl. Rancaekek Km. 24.5, Linggar, Kec. Rancaekek, Bandung Regency, West Java 40394 is a joint venture company between Japan (Kiji Reed Co. Ltd) and a local Indonesian partner, with business activities in the textile industry such as manufacturer and sales of reeds for weaving looms and material supplier for air-jet reeds. The company has three divisions: Wirecut, Polishing Dents, and Reed Production. As a textile manufacturing company, PT Setia Kiji Reed (SKR) needs to utilize information technology in warehouse inventory management. Lack of inventory control and not being recorded in inventory information are often experienced in the sales business, both online and offline sales, and the industrial world [5]. Managing inventory cannot be taken lightly because if the list is excessive, the risk of damage to goods increases, and the costs incurred increase, such as operational costs, storage costs, and others [6] [1]. On the other hand, if the inventory of goods is too little, the risk of shortage of stock will be significant. It can delay profits for the company and customer disappointment because the desired goods do not yet exist [7]. However, recording incoming and outgoing goods transactions at the Polishing Dents warehouse is not fully recorded in one application but is stored in various databases in separate places. The following process occurs at the Polishing Dents Warehouse:



Fig 1. Warehouse workflow

