DEVELOPMENT OF INTEGRATED DRUG INVENTORY MANAGEMENT SYSTEM AMONG WAREHOUSE PHARMACY HEALTH AND HEALTH IN SIDOARJO REGENCY

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ABSTRACT

Gudang Farmasi Dinas Kesehatan Kabupaten (GFK) Sidoarjo is a pharmacy warehouse of Sidoarjo Regency that act as one of Technical Implementation Unit of District Health Office. GFK is in charge of distribution and control of drugs to primary health centers in Sidoarjo Regency. There are several problems in the drug distribution process that is currently applied by GFK and health centers. Separate and manual inventory control where hundreds of drug items are manually monitored made the system prone to human error and in the end affect the accuracy of the information provided.

This research aims to address the problems faced by GFK by developing an integrated inventory management system. The method used in this research is the waterfall that means requirement is obtained by a communication process with the users then the design and development of the system through several phases: analysis, design, implementation and testing.

The results of this research is a system, implemented in a desktop platform with a single database that can be accessed by different users. with the use of a single database means that data will be recorded only once and accessed by those who need them according to the access rights. The existence of an integrated management system can provide up-to-date information about the stock-on-hand and demand needs from time to time to assist in the evaluation and decision making process. The system is expected to help the managers in managing inventory more effectively and efficiently compared to the current system as it potentially can reduce the average inventory up to 93%.

Key words: inventory management systems, integration, health, waterfall
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