

ABSTRAK

Pengelolaan stok bahan kimia di PT Lagro Engineer Indonesia saat ini masih dilakukan secara manual menggunakan media kertas dan *spreadsheet*. Hal ini mengakibatkan seringnya terjadi selisih stok, ketidakakuratan data, serta keterlambatan dalam rekapitulasi laporan. Penelitian ini bertujuan merancang bangun Sistem Informasi Inventaris berbasis *website* guna meningkatkan efisiensi dan akurasi data. Metode pengembangan sistem menggunakan model *Waterfall*, dengan implementasi bahasa pemrograman PHP, *framework* Laravel, dan basis data MySQL. Sistem ini menyediakan fitur pengelolaan data master, pencatatan transaksi barang masuk dan keluar, notifikasi stok minim, serta *stock opname*. Berdasarkan pengujian *Black Box Testing*, seluruh fitur terbukti berjalan valid sesuai kebutuhan pengguna. Penerapan sistem ini berhasil mengintegrasikan proses bisnis gudang, meminimalisir kesalahan pencatatan (*human error*), menyediakan informasi stok secara *real-time*, serta mempercepat proses pelaporan bagi pimpinan.

Kata Kunci : Sistem Inventaris, *Website*, *Waterfall*, Laravel, *Stock Opname*

ABSTRACT

The management of chemical material stock at PT Lagro Engineer Indonesia is currently performed manually using paper records and spreadsheets. This leads to frequent stock discrepancies, data inaccuracies, and delays in report recapitulation. This study aims to design and develop a website-based Inventory Information System to enhance data efficiency and accuracy. The system development utilizes the Waterfall model, implemented using the PHP programming language, Laravel framework, and MySQL database. The system provides features for master data management, recording of incoming and outgoing goods transactions, low stock notifications, and stock opname. Based on Black Box Testing, all features proved to function validly according to user requirements. The implementation of this system successfully integrates warehouse business processes, minimizes recording errors (human error), provides real-time stock information, and accelerates the reporting process for management.

Keywords : Inventory System, *Website*, *Waterfall*, Laravel, *Stock Opname*