

ABSTRAK

Pengelolaan stok material PT Palembang Construction Project masih mengandalkan *Microsoft Excel* dan *WhatsApp*, memicu risiko selisih stok, hilangnya pelacakan distribusi, serta ketiadaan dokumen pendukung keputusan. Penelitian ini merancang Aplikasi Manajemen Gudang berbasis *web* menggunakan metode *Waterfall*, *framework Laravel*, dan database *MySQL*. Pengujian sistem melalui metode *Black Box Testing* pada hak akses Admin, Mandor, dan Manajer menyatakan seluruh fungsionalitas berjalan sukses. Implementasi aplikasi ini berhasil mendigitalisasi alur permintaan, menerbitkan dokumen, sistem pesanan pembelian saat stok menipis, serta menyediakan pelaporan distribusi per proyek dan valuasi aset secara langsung. Kehadiran sistem ini terbukti menekan kesalahan administrasi, meningkatkan keakuratan data inventaris, dan mempercepat pengambilan keputusan manajerial.

Kata Kunci: Sistem Manajemen Gudang, Material Konstruksi, *Web*

ABSTRACT

Material inventory management at PT Palembang Construction Project still relies on Microsoft Excel and WhatsApp, triggering the risk of stock discrepancies, loss of distribution tracking, and the absence of documents decision support. This study designs a web-based Warehouse Management Application using the Waterfall method, Laravel framework, and MySQL database. System testing via the Black Box Testing method across Admin, Foreman, and Manager access rights indicates that all functionalities run successfully. The implementation of this application successfully digitalizes the approval workflow, issues documents, activates the purchase order system when stock runs low, and provides project-based distribution reporting and asset valuation directly. The presence of this system is proven to reduce administrative errors, improve inventory data accuracy, and accelerate managerial decision-making.

Keywords: Warehouse Management System, Construction Material, Web