

INTISARI

Perkembangan teknologi digital menuntut usaha ritel, termasuk toko bahan bangunan, untuk beradaptasi dalam mengelola stok dan transaksi penjualan. TB Ilham Abadi masih menggunakan metode manual yang berpotensi menimbulkan kesalahan pencatatan dan keterlambatan penyusunan laporan. Penelitian ini bertujuan merancang dan mengimplementasikan sistem informasi manajemen stok dan kasir berbasis web menggunakan metode *Rapid Application Development* (RAD), yang memungkinkan iterasi cepat dan keterlibatan langsung pengguna. Data dikumpulkan melalui wawancara, observasi, kuesioner, dan studi literatur, kemudian dianalisis menggunakan metode PIECES dan evaluasi *User Acceptance Testing* dengan *Black-box testing* serta skala Likert. Hasil penelitian menunjukkan bahwa sistem mampu mencatat stok secara *real-time*, memproses transaksi dengan cepat, menghasilkan laporan penjualan otomatis, dan mengelola hak akses *multi-user*. Pengujian *Black-box* menunjukkan 100% keberhasilan fungsi, sedangkan kuesioner memperoleh skor kelayakan 96% (*Sangat Layak*). Sistem ini terbukti meningkatkan efisiensi, akurasi data, dan kualitas layanan di TB Ilham Abadi. Implikasi penelitian ini adalah penyediaan solusi praktis dan terukur untuk usaha ritel dalam meningkatkan kinerja operasional. Penelitian selanjutnya disarankan menguji sistem pada berbagai jenis usaha dan mengintegrasikannya dengan *cloud computing* serta modul analitik penjualan.

Kata kunci: Sistem Informasi, Manajemen Stok, Kasir, RAD, Web-based

ABSTRACT

The rapid advancement of digital technology demands that retail businesses, including building material stores, adapt their operational processes to improve efficiency and accuracy. TB Ilham Abadi, a small-to-medium-scale building materials store, still relies on manual stock recording and cashier transactions, leading to frequent data inaccuracies and delays in report preparation. This study aims to design and implement a web-based stock management and cashier information system using the Rapid Application Development (RAD) method, which emphasizes fast prototyping and direct user involvement. Data were collected through interviews, field observations, questionnaires, and literature review, and analyzed using the PIECES framework. The system was evaluated through User Acceptance Testing (UAT) with Black-box testing and Likert scale assessment. The results show that the developed system successfully records stock in real-time, processes transactions quickly and accurately, generates automated sales reports, and applies multi-user role management to differentiate access rights between administrators and employees. Black-box testing achieved a 100% success rate across all tested functionalities, while the Likert scale evaluation yielded an overall feasibility score of 96%, categorized as Highly Feasible. The system significantly improves operational efficiency, reduces errors in data recording, and enhances service quality. This research contributes both theoretically, by demonstrating the effective integration of stock management and cashier systems within a single web-based platform, and practically, by providing a scalable solution for small and medium-sized retail enterprises. Future research is recommended to integrate cloud computing and sales analytics modules to further optimize decision-making processes.

Keywords: *Information System, Stock Management, Cashier, RAD, Web-based*