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SISTEM INFORMASI INVENTORI BERBASIS WEBSITE PADA TOKO BANGUNAN BUMI MAS PEKALONGAN. di bawah bimbingan Bapak Dicke J. S. H. Siregar, M.Kom. dan Ibu Eny Jumiati, M.Kom.

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ABSTRAK

Pencatatan inventaris manual di Toko Bangunan Bumi Mas Pekalongan rentan terhadap risiko kehilangan data dan ketidaksesuaian stok fisik. Penelitian ini bertujuan merancang sistem informasi inventaris berbasis website untuk mengatasi kendala tersebut menggunakan metode Waterfall. Pengembangan sistem dilakukan dengan framework CodeIgniter 4 dan basis data MySQL, serta diuji menggunakan metode White Box, Black Box, dan User Acceptance Test (UAT). Hasil penelitian menunjukkan bahwa sistem yang dilengkapi fitur Role-Based Access Control (RBAC) ini terbukti fungsional dalam mengkalkulasi transaksi dan memperbarui stok secara real-time. Kesimpulannya, sistem ini efektif meminimalisir human error serta mempermudah penyusunan laporan. Untuk penelitian selanjutnya, disarankan pengembangan aplikasi mobile untuk stock opname, integrasi notifikasi peringatan stok, dan penambahan modul e-commerce.

Kata Kunci: *Sistem Informasi, Inventaris, Website, Waterfall, Toko Bangunan*

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WEBSITE BASED INVENTORY INFORMATION SYSTEM AT TOKO BANGUNAN BUMI MAS PEKALONGAN. Under the supervision of Mr. Dicke J. S. H. Siregar, M.Kom. and Mrs Eny Jumiati, M.Kom.

316 + xvii Pages / 184 Picture / 22 table / 47 Bibliography (2018 - 2024)

ABSTRAK

Manual inventory recording at Toko Bangunan Bumi Mas Pekalongan is vulnerable to the risk of data loss and physical stock discrepancies. This research aims to design a website-based inventory information system to address these issues using the Waterfall method. The system development was conducted using the CodeIgniter 4 framework and a MySQL database, and it was tested using White Box, Black Box, and User Acceptance Test (UAT) methods. The research results indicate that the system, equipped with a Role-Based Access Control (RBAC) feature, has proven functional in calculating transactions and updating stock in real-time. In conclusion, this system effectively minimizes human error and simplifies report generation. For future research, developing a mobile application for stocktaking, integrating automated stock warning notifications, and adding an e-commerce module are recommended.

Keyword : *Information System, Inventory, Website, Waterfall, Building Material Store*