

MUHAMMAD IRZAT ABROR, 23.120.0005
SISTEM INFORMASI MANAJEMEN STOK BARANG
BERBASIS WEB DI PT TEKNOLOGI JARINGAN
EXCELLENT.

dibawah bimbingan Bapak Much. Rifqi Maulana, M.Kom. dan Bapak
Wachid Darmawan, M.Kom.

56 + xi Halaman / 26 Gambar / 6 Tabel / 14 Daftar Pustaka (2021–2022)

ABSTRAK

Pengelolaan stok barang merupakan salah satu proses penting dalam mendukung kegiatan operasional perusahaan. Pada PT Teknologi Jaringan Excellent, proses pencatatan dan monitoring persediaan barang masih dilakukan secara kurang terintegrasi sehingga menyulitkan pencarian riwayat transaksi, pemantauan kondisi stok, serta meningkatkan risiko kesalahan pencatatan. Penelitian ini bertujuan membangun Sistem Informasi Manajemen Stok Barang berbasis web untuk membantu pengelolaan persediaan secara lebih efektif dan terstruktur. Sistem dikembangkan menggunakan framework CodeIgniter 4 dengan bahasa pemrograman PHP dan database MySQL. Fitur utama yang disediakan meliputi pengelolaan data barang, pencatatan barang masuk dan barang keluar, monitoring stok menipis, laporan per teknisi, serta rekapitulasi stok. Pengembangan sistem dilakukan melalui tahapan analisis kebutuhan, perancangan, implementasi, dan pengujian. Pengujian menggunakan metode User Acceptance Testing (UAT) untuk mengukur tingkat penerimaan pengguna serta Stress Testing menggunakan Grafana K6 untuk menguji performa sistem dalam menangani akses secara bersamaan. Hasil penelitian menunjukkan bahwa sistem mampu membantu admin gudang dalam mengelola data dan transaksi stok secara terkomputerisasi, sementara pimpinan dapat memantau kondisi persediaan melalui dashboard dan laporan. Berdasarkan hasil pengujian, sistem dapat diterima oleh pengguna serta mampu berjalan dengan baik dan stabil sesuai kebutuhan operasional perusahaan.

Kata Kunci: Sistem Informasi, Manajemen Stok Barang, CodeIgniter 4, User Acceptance Testing, Stress Testing.

MUHAMMAD IRZAT ABROR, 23.120.0005
SISTEM INFORMASI MANAJEMEN STOK BARANG
BERBASIS WEB DI PT TEKNOLOGI JARINGAN
EXCELLENT.

under the guidance of Mr.Much. Rifqi Maulana, M.Kom. and
Mr.Wachid Darmawan, M.Kom.

56 + xi Pages / 26 Figures / 6 Tables / 14 bibliographies (2021–2022)

ABSTRACT

Inventory management is an essential process in supporting a company's operational activities. At PT Teknologi Jaringan Excellent, inventory recording and monitoring were not fully integrated, making it difficult to track transaction history, monitor stock availability, and reducing the accuracy of inventory records. This study aims to develop a web-based Inventory Management Information System to improve inventory management efficiency and organization. The system was developed using the CodeIgniter 4 framework, PHP programming language, and MySQL database. Its main features include inventory management, stock-in and stock-out transactions, low-stock monitoring, technician-based reports, and inventory recap reports. The system development process consisted of requirements analysis, system design, implementation, and testing. User Acceptance Testing (UAT) was conducted to evaluate user acceptance, while Stress Testing using Grafana K6 was performed to assess the system's performance under concurrent user access. The implementation results indicate that the system assists warehouse administrators in managing inventory and stock transactions more efficiently, while company management can monitor inventory conditions through the dashboard and reporting features. The testing results demonstrate that the system is well accepted by users and operates reliably and stably in supporting the company's operational requirements.

Keywords: *Information System, Inventory Management, CodeIgniter 4, MySQL, User Acceptance Testing*