

ABSTRAK

Rio Ade Zaputra. 2026. Rancang Bangun Sistem Informasi Manajemen Penjualan dan Inventori Gudang pada Toko Sepatu Pandawa Store Berbasis *Web*. Program Studi Teknik Informatika, Fakultas Teknik, Universitas PGRI Madiun. Pembimbing (I) Yoga Prisma Yuda, S.Kom., M.Kom. Pembimbing (II) Muh. Nur Luthfi Azis, S.Kom., M.Kom.

Toko Sepatu Pandawa Store di Kota Madiun masih mengelola penjualan dan persediaan sepatu secara manual, sehingga pencatatan stok, transaksi, dan pelaporan belum terkomputerisasi serta rawan terjadi ketidaksesuaian antara data dengan jumlah fisik barang di gudang. Penelitian ini bertujuan merancang dan membangun sistem informasi *e-commerce* berbasis web yang mengintegrasikan penjualan *online* dengan pengelolaan inventori gudang secara *real-time*, termasuk transaksi multi-metode pembayaran yang terhubung otomatis dengan pembaruan stok, fitur pelaporan penjualan dan pergerakan barang, serta evaluasi fungsionalitas dan *usability* sistem. Sistem dikembangkan menggunakan metode *Waterfall* melalui tahap analisis kebutuhan, desain sistem, pengkodean, pengujian, serta implementasi dan pemeliharaan, dan dibangun menggunakan bahasa pemrograman PHP dengan *framework* Laravel serta *database* MySQL. Hasil penelitian menunjukkan sistem berhasil dibangun dengan tiga tingkatan pengguna (*Customer*, Admin, dan Super Admin) yang mengintegrasikan data produk, varian, stok, transaksi, pembayaran, pengiriman, *voucher*, *invoice*, inventori, grafik, dan laporan dalam satu kesatuan. Pengujian *Black Box Testing* menunjukkan seluruh 27 skenario fitur utama berhasil dengan tingkat keberhasilan 100%, sedangkan pengujian *System Usability Scale* (SUS) terhadap 20 responden memperoleh skor rata-rata 98,1 yang termasuk kategori dapat diterima (sangat baik), sehingga sistem terbukti mudah digunakan dan mampu mendukung digitalisasi kegiatan penjualan serta inventori pada Pandawa Store.

Kata kunci: Sistem Informasi, Penjualan, Inventori, *E-Commerce*, *Website*, *Waterfall*.

ABSTRACT

Rio Ade Zaputra. 2026. Design and Development of a Web-Based Sales and Warehouse Inventory Management Information System for Pandawa Store Shoe Shop. Informatics Engineering Study Program, Faculty of Engineering, Universitas PGRI Madiun. Supervisor (I) Yoga Prisma Yuda, S.Kom., M.Kom. Supervisor (II) Muh. Nur Luthfi Azis, S.Kom., M.Kom.

Pandawa Store, a shoe shop in Madiun City, still manages its sales and inventory manually, so that stock recording, transactions, and reporting are not yet computerized and are prone to discrepancies between recorded data and the actual physical stock in the warehouse. This research aims to design and develop a web-based e-commerce information system that integrates online sales with real-time warehouse inventory management, including multi-payment-method transactions directly linked to automatic stock updates, sales and stock-movement reporting features, and an evaluation of the system's functionality and usability. The system was developed using the Waterfall method through the stages of requirements analysis, system design, coding, testing, and implementation and maintenance, and was built using the PHP programming language with the Laravel framework and MySQL database. The results show that the system was successfully built with three user levels (Customer, Admin, and Super Admin) that integrate product data, variants, stock, transactions, payments, shipping, vouchers, invoices, inventory, charts, and reports into one unified system. Black Box Testing showed that all 27 main feature scenarios succeeded, achieving a 100% success rate, while System Usability Scale (SUS) testing on 20 respondents obtained an average score of 98.1, classified as acceptable (excellent), proving that the system is easy to use and able to support the digitalization of sales and inventory activities at Pandawa Store.

Keywords: Information System, Sales, Inventory, E-Commerce, Website, Waterfall.