

ABSTRAK

Rahmawati, Orchidanti Izza. 2026. Rancang Bangun Sistem Manajemen *Point of Sale* (POS) untuk Mendukung Transaksi Penjualan pada TB Teguh Jaya. Skripsi. Program Studi Teknik Informatika, FT, Universitas PGRI Madiun. Pembimbing (I) Slamet Riyanto, S.T., M.M. (II) Yoga Prisma Yuda, S.Kom., M.Kom.

Perkembangan teknologi informasi mendorong penggunaan sistem yang mampu meningkatkan efektivitas pengelolaan transaksi pada berbagai bidang usaha, termasuk toko bahan bangunan. TB Teguh Jaya masih mengalami kendala dalam pencatatan transaksi, pengelolaan persediaan, dan penyusunan laporan yang dilakukan secara manual sehingga berisiko menyebabkan kesalahan pencatatan dan keterlambatan informasi. Penelitian ini bertujuan merancang dan membangun sistem manajemen *Point of Sale* (POS) berbasis *website* yang mengintegrasikan pengelolaan data produk, transaksi penjualan, stok barang, keuangan, dan laporan. Metode pengembangan yang digunakan adalah *Prototype* dengan perancangan sistem menggunakan *Unified Modeling Language* (UML) berupa *Use Case Diagram*, *Activity Diagram*, *Sequence Diagram*, dan *Class Diagram*. Sistem dikembangkan menggunakan *framework* Laravel Livewire dengan basis data MySQL. Pengujian dilakukan menggunakan *Black Box Testing* dan *System Usability Scale* (SUS). Hasil pengujian menunjukkan seluruh fitur berjalan sesuai kebutuhan pengguna, dengan nilai SUS sebesar 86,75 yang termasuk kategori *Acceptable*, *Grade A*, dan *Excellent*. Sistem yang dikembangkan dinilai layak digunakan serta mampu meningkatkan efektivitas dan akurasi pengelolaan transaksi pada TB Teguh Jaya.

Kata Kunci: *Point of Sale* (POS), *Laravel Livewire*, *Prototype*, Sistem Informasi, *Black Box Testing*, *System Usability Scale* (SUS).

ABSTRACT

Rahmawati, Orchidanti Izza. 2026. *Design and Development of a Point of Sale (POS) Management System to Support Sales Transactions at TB Teguh Jaya. Undergraduate Thesis. Informatics Engineering Study Program, Faculty of Engineering, Universitas PGRI Madiun. Supervisors: (I) Slamet Riyanto, S.T., M.M. (II) Yoga Prisma Yuda, S.Kom., M.Kom.*

The development of information technology encourages the use of systems that can improve the effectiveness of transaction management in various business fields, including building materials stores. TB Teguh Jaya still experiences obstacles in recording transactions, managing inventory, and preparing reports that are done manually, thus risking recording errors and delays in information. This study aims to design and build a website-based Point of Sale (POS) management system that integrates product data management, sales transactions, inventory, finance, and reports. The development method used is Prototype with system design using Unified Modeling Language (UML) in the form of Use Case Diagrams, Activity Diagrams, Sequence Diagrams, and Class Diagrams. The system was developed using the Laravel Livewire framework with a MySQL database. Testing was carried out using Black Box Testing and System Usability Scale (SUS). The test results showed that all features run according to user needs, with a SUS value of 86.75 which is included in the Acceptable, Grade A, and Excellent categories. The developed system is considered feasible to use and is able to improve the effectiveness and accuracy of transaction management at TB Teguh Jaya.

Keywords: Point of Sale (POS), Laravel Livewire, Prototype, Information System, Black Box Testing, System Usability Scale (SUS).