

## ABSTRAK

Yoga Andika Pratama. 2025. Rancang Bangun Sistem *Inventory* MP. Vape Store Berbasis *Business Intelligent*. Skripsi. Program Studi Teknik Informatika, Fakultas Teknik, Universitas PGRI Madiun. Pembimbing (I) [Nama Dosen Pembimbing I], S.Kom., M.Kom. Pembimbing (II) [Nama Dosen Pembimbing II], S.Kom., M.M.

Sistem *inventory* berbasis *Business Intelligence* untuk MP. Vape Store ini dikembangkan untuk meningkatkan efisiensi dan akurasi pengelolaan stok barang. Pada sistem manual sebelumnya, pencatatan stok sering terlambat dan menimbulkan kesalahan sehingga menghambat proses *restock* dan analisis penjualan. Sistem yang dirancang menyediakan informasi stok secara *real-time*, notifikasi *restock*, serta *dashboard* analisis penjualan untuk mengetahui produk sering keluar. Pengembangan dilakukan menggunakan metode *Waterfall* dengan teknologi *Laravel*, *HTML*, *CSS*, *JavaScript*, dan *MySQL*. Berdasarkan hasil pengujian fungsional yang melibatkan *Admin* gudang, *Staff* Gudang, dan pemilik toko (*Owner*), sistem ini terbukti mampu mengoptimalkan efisiensi pengelolaan stok serta meminimalisir risiko kesalahan pencatatan data. Seluruh fitur utama, mulai dari mutasi stok hingga notifikasi otomatis, telah beroperasi sesuai dengan kebutuhan operasional sehingga dapat menjadi instrumen pendukung yang andal bagi manajemen MP. Vape Store dalam melakukan pengambilan keputusan berbasis data yang akurat.

Kata Kunci: Sistem *Inventory*, *Business Intelligence*, *Laravel*, *MySQL*.

## ABSTRACT

Yoga Andika Pratama. 2025. *Design and Development of Business Intelligent-Based Inventory System for MP. Vape Store. Undergraduate Thesis. Informatics Engineering Study Program, Faculty of Engineering, Universitas PGRI Madiun. Advisor (I) [Supervisor's Name], S.Kom., M.Kom. Co-Advisor (II) [Co-Supervisor's Name], S.Kom., M.M.*

The *Business Intelligence*-based *inventory* system for MP. Vape Store was developed to enhance the efficiency and accuracy of stock management. In the previous manual system, stock recording was often delayed and prone to errors, which hindered the *restocking* process and sales analysis. The designed system provides *real-time* stock information, *restock* notifications, and a sales analysis *dashboard* to identify high-turnover products. Development was carried out using the *Waterfall* method with *Laravel*, *HTML*, *CSS*, *JavaScript*, and *MySQL* technologies. Based on functional testing results involving the *Warehouse Admin*, *Warehouse Staff*, and the *Owner*, this system has proven capable of optimizing stock management efficiency and minimizing the risk of data recording errors. All core features, ranging from stock mutations to automated notifications, operate in accordance with operational requirements, serving as a reliable decision-support instrument for MP. Vape Store management in making accurate data-driven decisions.

Keywords: *Inventory System, Business Intelligence, Laravel, MySQL.*