

ABSTRAK

PENGEMBANGAN APLIKASI *POINT OF SALE* (POS) BERBASIS WEB UNTUK OPTIMASI PROSES TRANSAKSI DI MARANATHA ELECTRIC STORE

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Maranatha *Electric Store* merupakan usaha di bidang penjualan produk elektronik. Proses transaksi yang masih dilakukan secara manual memiliki potensi untuk menyebabkan kesalahan pencatatan, keterlambatan laporan, serta ketidakefisienan dalam pengelolaan data penjualan dan pembelian. Untuk itu, dibutuhkan sistem yang dapat mengoptimalkan proses transaksi dan pengelolaan data secara cepat, akurat dan tepat waktu.

Penelitian yang dilakukan bertujuan untuk mengembangkan aplikasi *Point of Sale* (POS) berbasis *web* untuk mendukung proses transaksi di Maranatha Electric Store. Sistem dikembangkan menggunakan pendekatan metode *Extreme Programming* (XP) yang meliputi tahapan perencanaan, perancangan, pengkodean dan pengujian. Teknologi yang digunakan meliputi *PHP*, *MariaDB*, *JavaScript* dan *framework CodeIgniter*.

Hasil pengembangan menunjukkan bahwa aplikasi mampu memproses transaksi penjualan dan pembelian secara *real-time*, mengelola data barang, mencatat stok, serta menyajikan laporan penjualan dan pembelian berdasarkan periode tertentu. Dengan aplikasi ini, proses transaksi menjadi lebih optimal, terstruktur dan meminimalisir risiko kesalahan pencatatan.

Kata kunci : Aplikasi, *Point of Sale*, *Web*, *Extreme Programming*, Transaksi.

ABSTRACT

DEVELOPMENT OF A WEB - BASED POINT OF SALE (POS) APPLICATION FOR OPTIMIZING TRANSACTION PROCESSES AT MARANATHA ELECTRIC STORE

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Maranatha Electric Store is a business engaged in the sale of electronic products. The transaction process, which is still carried out manually, has the potential to cause recording errors, reporting delays, and inefficiency in managing sales and purchase data. Therefore, a system is needed to optimize transaction processes and data management quickly, accurately, and on time. The research aims to develop a web-based Point of Sale (POS) application to support the transaction process at Maranatha Electric Store. The system is developed using the Extreme Programming (XP) method, which includes the stages of planning, designing, coding, and testing. The technologies used include PHP, MariaDB, JavaScript, and the CodeIgniter framework. The development results show that the application can process sales and purchase transactions in real-time, manage product data, record stock, and present sales and purchase reports based on specific periods. With this application, the transaction process becomes more optimal, structured, and minimizes the risk of recording errors.

Key words : Application, Point of Sale, Web, Extreme Programming, Transaction.