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*SISTEM INFORMASI POS (POINT OF SALES) DAN MANAJEMEN
PERSEDIAN DI TOKO IFA BERBASIS WEBSITE*

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ABSTRAK

Toko Sembako IFA menghadapi berbagai kendala operasional, seperti kesalahan penentuan harga, keterlambatan transaksi, serta kesulitan pengecekan stok dan pengelolaan laporan penjualan harian dan bulanan. Penelitian ini bertujuan mengembangkan sistem informasi berbasis web untuk mengatasi permasalahan tersebut. Pengembangan menggunakan metode Waterfall, dengan pengumpulan data melalui observasi dan wawancara. Sistem diimplementasikan dengan framework Laravel dan database MySQL, serta diuji menggunakan metode white box, black box, dan User Acceptance Test (UAT). Hasil pengembangan menunjukkan sistem mampu meningkatkan efisiensi operasional toko dengan menyediakan fitur login, manajemen data produk, pengelolaan transaksi penjualan, pendataan barang masuk, pembuatan struk otomatis, serta pengelolaan laporan penjualan harian dan bulanan. Pengujian black box membuktikan setiap fungsi berjalan sesuai spesifikasi tanpa kesalahan fungsional, serta mampu menangani berbagai skenario input dengan baik setelah tiga kali pengujian di setiap inputan. Pengujian white box menunjukkan cyclomatic complexity bernilai 4, sehingga kode mudah dipahami dan memiliki alur efisien. Hasil UAT menunjukkan pengguna merasa sistem memiliki antarmuka intuitif dan fitur yang sesuai kebutuhan. Namun, masih terdapat keterbatasan yang perlu diperbaiki, antara lain belum tersedianya fitur benefit khusus bagi pelanggan tetap yang dapat meningkatkan loyalitas, serta belum adanya fitur pendataan barang rusak dan laporan terperinci terkait barang rusak. Tanpa fitur ini, sistem belum mampu mendata barang pembelian yang akan dikembalikan ke supplier. Pengelolaan stok masih bisa ditingkatkan agar lebih akurat dengan adanya pencatatan dan laporan rinci mengenai kondisi barang.

Kata Kunci: Sistem Informasi, Toko Sembako, Laravel, MySQL, Waterfall..

WEBSITE-BASED POS (POINT OF SALES) AND INVENTORY MANAGEMENT INFORMATION SYSTEM AT IFA STORE

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ABSTRACT

IFA Grocery Store faces various operational challenges, such as pricing errors, transaction delays, and difficulties in stock checking and managing daily and monthly sales reports. This study aims to develop a web-based information system to address these issues. The development process uses the Waterfall method, with data collection through observation and interviews. The system was implemented using the Laravel framework and MySQL database, and tested using white box, black box, and User Acceptance Test (UAT) methods. The development results show that the system can improve the store's operational efficiency by providing features such as login, product data management, sales transaction management, incoming goods recording, automatic receipt generation, and daily and monthly sales report management. Black box testing confirmed that all functions operate according to specifications without functional errors and can handle various input scenarios effectively after three rounds of testing for each input. White box testing showed a cyclomatic complexity value of 4, indicating that the code is easy to understand and has an efficient flow. UAT results showed that users found the system to have an intuitive interface and features that meet their needs. However, there are still limitations that need to be addressed, including the absence of special benefits for loyal customers to enhance loyalty, as well as the lack of features for tracking damaged goods and detailed reports on damaged goods. Without these features, the system is unable to track purchased items that will be returned to suppliers. Inventory management can be improved for greater accuracy through detailed recording and reporting on the condition of item

Keywords: Information System, Grocery Store, Laravel, MySQL, Waterfall.