

ABSTRAK

Koperasi Karyawan PT Golden Blossom Sumatra masih melakukan pengelolaan transaksi penjualan, inventaris barang, dan piutang anggota secara manual menggunakan buku catatan. Kondisi tersebut menimbulkan berbagai permasalahan, seperti kesalahan pencatatan, kesulitan dalam pemantauan stok barang, lambatnya proses rekapitulasi piutang, serta belum adanya mekanisme pembatasan kredit yang dapat mencegah terjadinya kredit macet. Oleh karena itu, penelitian ini bertujuan untuk merancang dan membangun Aplikasi Kendali Kredit dan Inventaris Koperasi Karyawan Berbasis *Website* dengan fitur pembatasan limit transaksi otomatis. Sistem dikembangkan menggunakan metode *Waterfall* yang meliputi tahapan analisis kebutuhan, perancangan sistem, implementasi, pengujian, dan pemeliharaan. Perancangan sistem menggunakan *Unified Modeling Language* (UML), sedangkan implementasi aplikasi menggunakan bahasa pemrograman PHP dan basis data MySQL. Fitur utama yang dikembangkan meliputi pengelolaan data anggota, inventaris barang, transaksi penjualan, pengelolaan piutang, pengajuan limit kredit, persetujuan limit kredit, serta pembatasan transaksi kredit secara otomatis berdasarkan sisa limit yang dimiliki anggota. Pengujian sistem dilakukan menggunakan metode Black Box Testing untuk memastikan seluruh fungsi berjalan sesuai kebutuhan pengguna. Hasil penelitian menunjukkan bahwa aplikasi yang dibangun mampu meningkatkan efektivitas pengelolaan koperasi, mempercepat proses transaksi, memudahkan pemantauan stok dan piutang, serta membantu mengurangi risiko kredit macet melalui penerapan pembatasan limit transaksi secara otomatis.

Kata Kunci: Koperasi Karyawan, Inventaris, Kredit, *Website*, Limit Transaksi Otomatis, *Waterfall*.

ABSTRACT

The Employee Cooperative of PT Golden Blossom Sumatra still manages sales transactions, inventory records, and member receivables manually using conventional record books. This condition causes several problems, including recording errors, difficulties in monitoring inventory, slow receivables recapitulation processes, and the absence of a credit control mechanism to prevent bad debts. Therefore, this study aims to design and develop a Web-Based Credit and Inventory Control Application with an automatic transaction limit feature. The system was developed using the Waterfall method, consisting of requirements analysis, system design, implementation, testing, and maintenance stages. System modeling was carried out using Unified Modeling Language (UML), while the application was implemented using PHP and MySQL. The main features include member management, inventory management, sales transactions, receivables management, credit limit submission, credit limit approval, and automatic credit transaction restrictions based on the remaining credit limit of each member. System testing was conducted using the Black Box Testing method to ensure that all functionalities operated according to user requirements. The results indicate that the developed application improves cooperative operational efficiency, accelerates transaction processing, facilitates inventory and receivables monitoring, and reduces the risk of bad debts through the implementation of automatic transaction limit controls.

Keywords: Employee Cooperative, Inventory, Credit, Website, Automatic Transaction Limit, Waterfall Method.