

ABSTRACT

Title : APPLICATION OF E-SCM (ELECTRONIC SUPPLY CHAIN MANAGEMENT) IN A FERTILIZER DISTRIBUTION INFORMATION SYSTEM USING PHP PROGRAMMING LANGUAGE AND MYSQL DATABASE (CASE STUDY: MANDIRI SEJATI TANI SHOP)

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The development of information technology has encouraged digitalization in various aspects of business, including supply chain management (SCM). This research aims to implement the Electronic Supply Chain Management (E-SCM) system in the fertilizer distribution information system at Toko Tani Mandiri Sejati in order to increase operational efficiency and effectiveness. Currently, the fertilizer distribution process in stores is still done manually, which has the potential to cause various problems such as delivery delays, stock recording errors, and lack of integration between suppliers, warehouses and distributors. To overcome this problem, a web-based information system was developed using the PHP programming language and MySQL database. This system is designed to manage stock records automatically, speed up the ordering and distribution process, and provide more accurate and computerized reports. The implementation of E-SCM in this information system allows real-time data synchronization, reduced operational costs, and increased customer satisfaction through more timely and accurate distribution. The research results show that the application of E-SCM to the fertilizer distribution information system can increase stock management efficiency, optimize the delivery process, and facilitate decision making based on more accurate data. Thus, this system can be used as a reference for other companies operating in the distribution of agricultural products to adopt technology to increase their business competitiveness.

Keywords: *E-SCM, Supply Chain Management, Fertilizer Distribution, Information Systems, PHP, MySQL*

ABSTRAK

Judul : **PENERAPAN E-SCM (ELEKTRONIK SUPPLY CHAIN MANAGEMENT) PADA SISTEM INFORMASI PENDISTRIBUSIAN PUPUK MENGGUNAKAN BAHASA PEMROGRAMAN PHP DAN DATABASE MYSQL (STUDI KASUS : TOKO TANI MANDIRI SEJATI)**

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Perkembangan teknologi informasi telah mendorong digitalisasi dalam berbagai aspek bisnis, termasuk dalam manajemen rantai pasok (Supply Chain Management/SCM). Penelitian ini bertujuan untuk menerapkan sistem Electronic Supply Chain Management (E-SCM) dalam sistem informasi pendistribusian pupuk di Toko Tani Mandiri Sejati guna meningkatkan efisiensi dan efektivitas operasional. Saat ini, proses distribusi pupuk di toko masih dilakukan secara manual, yang berpotensi menimbulkan berbagai permasalahan seperti keterlambatan pengiriman, kesalahan pencatatan stok, dan kurangnya integrasi antara pemasok, gudang, dan distributor. Untuk mengatasi permasalahan tersebut, dikembangkan sistem informasi berbasis web dengan menggunakan bahasa pemrograman PHP dan database MySQL. Sistem ini dirancang untuk mengelola pencatatan stok secara otomatis, mempercepat proses pemesanan dan distribusi, serta menyediakan laporan yang lebih akurat dan terkomputerisasi. Implementasi E-SCM dalam sistem informasi ini memungkinkan sinkronisasi data secara real-time, pengurangan biaya operasional, serta peningkatan kepuasan pelanggan melalui distribusi yang lebih tepat waktu dan akurat. Hasil penelitian menunjukkan bahwa penerapan E-SCM pada sistem informasi pendistribusian pupuk dapat meningkatkan efisiensi manajemen stok, mengoptimalkan proses pengiriman, serta mempermudah pengambilan keputusan berdasarkan data yang lebih akurat. Dengan demikian, sistem ini dapat dijadikan referensi bagi perusahaan lain yang bergerak di bidang distribusi produk pertanian untuk mengadopsi teknologi dalam meningkatkan daya saing bisnis mereka.

Kata kunci: E-SCM, Supply Chain Management, Pendistribusian Pupuk, Sistem Informasi, PHP, MySQL