

RANCANG BANGUN SISTEM INFORMASI *DASHBOARD* UNTUK PENCATATAN DAN *MONITORING PURCHASE ORDER* HINGGA PRODUKSI PADA PERUSAHAAN NEO

Muhammad Akhdan Najib

ABSTRAK

Dashboard informasi berbasis web berperan penting dalam mendukung proses pencatatan dan monitoring data secara terintegrasi dan real-time, khususnya pada aktivitas pengelolaan Purchase Order dan produksi. Pada Perusahaan Neo, proses pencatatan Purchase Order, penyusunan surat perintah kerja, serta pengendalian ketersediaan material masih dilakukan menggunakan dokumen fisik dan tidak terpusat, sehingga berpotensi menimbulkan kehilangan dokumen, keterlambatan informasi, dan kesalahan pencatatan. Penelitian ini bertujuan untuk merancang dan membangun sistem informasi dashboard berbasis web yang mampu mengintegrasikan proses pencatatan dan monitoring Purchase Order hingga produksi. Solusi yang ditawarkan berupa sistem yang dapat mengotomatisasi pembentukan surat perintah kerja, memperbarui stok material secara otomatis, serta menyajikan informasi status Purchase Order dan produksi secara terpusat. Metode pengembangan sistem yang digunakan adalah Waterfall, dengan tahapan analisis kebutuhan menggunakan pendekatan PIECES, perancangan sistem menggunakan UML, implementasi sistem berbasis web, serta pengujian menggunakan black box testing dan User Acceptance Testing (UAT). Hasil penelitian menunjukkan bahwa sistem yang dibangun mampu meningkatkan efektivitas proses kerja, mengurangi kesalahan pencatatan, dan mempercepat akses informasi bagi manajemen.

Kata kunci: Dashboard, Purchase Order, Waterfall

DESIGN AND DEVELOPMENT OF A DASHBOARD INFORMATION SYSTEM FOR RECORDING AND MONITORING PURCHASE ORDERS TO PRODUCTION AT NEO COMPANY

Muhammad Akhdan Najib

ABSTRACT

A web-based information dashboard plays an important role in supporting integrated and real-time data recording and monitoring, particularly in the management of Purchase Orders and production activities. At Neo Company, the processes of recording Purchase Orders, preparing work orders, and controlling material availability are still carried out using physical documents and non-centralized procedures, which can lead to document loss, information delays, and recording errors. This study aims to design and develop a web-based dashboard information system that integrates the recording and monitoring of Purchase Orders through the production process. The proposed solution is a system capable of automating work order generation, automatically updating material stock usage, and presenting centralized information on Purchase Order and production status. The system development method used is the Waterfall model, which includes requirement analysis using the PIECES approach, system design using UML, web-based system implementation, and system testing using black box testing and User Acceptance Testing (UAT). The results show that the developed system improves work process effectiveness, reduces recording errors, and accelerates access to information for management.

Keywords: *Dashboard, Purchase Order, Waterfall*