ABSTRAK

Sistem informasi sangat penting dalam pengendalian kualitas produk di PT Gajah Tunggal Tbk. Perusahaan ini menghadapi masalah dalam pendataan, rekapan, dan pelaporan data kualitas produk yang masih manual, menyebabkan kesalahan dan ketidakakuratan. Penelitian ini bertujuan meningkatkan efisiensi dan akurasi melalui implementasi sistem informasi berbasis web Metode pengembangan sistem menggunakan *prototype* dengan partisipasi aktif stakeholder dalam evaluasi dan feedback. Sistem dirancang menggunakan framework Laravel dan *Unified Modeling Language (UML)*, dengan data dikumpulkan melalui penelitian lapangan, observasi, dan wawancara. Sistem Informasi pencatatan dan pelaporan konvensional memiliki kendala seperti ketidakakuratan data dan keterlambatan informasi. Implementasi sistem informasi berbasis web menunjukkan peningkatan dalam kecepatan dan akurasi pencatatan serta pelaporan data produk cacat. Sistem ini memudahkan pencatatan data real-time oleh inspektor, pengolahan data oleh leader, dan pembuatan laporan sesuai kebutuhan head of section. Diharapkan, sistem ini membantu bagian Final Inspection PT Gajah Tunggal Tbk menjalankan monitoring dan pelaporan dengan lebih efektif dan efisien.

Kata Kunci: Sistem,Reporting,Defect,Monitoring,UML,Prototype.

ABSTRACT

Information systems are crucial for product quality control at PT Gajah Tunggal Tbk. The company faces issues with manual data recording, summarizing, and reporting of product quality data, leading to errors and inaccuracies. This study aims to enhance efficiency and accuracy through the implementation of a web-based information system. The system development method employs a prototype approach with active stakeholder participation in evaluation and feedback. The system is designed using the Laravel framework and Unified Modeling Language (UML), with data collected through field research, observations, and interviews. Conventional data recording and reporting systems encounter problems such as data inaccuracies and delayed information. The implementation of a web-based information system demonstrates improvements in the speed and accuracy of data recording and reporting for defective products. This system facilitates real-time data recording by inspectors, data processing by leaders, and report generation as needed by the head of section. It is expected that this system will assist the Final Inspection section at PT Gajah Tunggal Tbk in conducting monitoring and reporting more effectively and efficiently.

Kata Kunci: : *Sistem,Reporting,Defect,Monitoring,UML,Prototype*.