

SISTEM INFORMASI INVENTORY BAHAN BAKU PADA KONVEKSI ARTOMORO BERBASIS WEB DENGAN METODE RAPID APPLICATION DEVELOPMENT (RAD)

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Abstrak

Konveksi Artomoro merupakan usaha yang bergerak dalam bidang produksi pakaian, khususnya celana jeans dan cargo. Dalam kegiatan operasionalnya, proses pencatatan bahan baku serta aktivitas produksi masih dilakukan secara manual, sehingga berpotensi menimbulkan berbagai permasalahan seperti kesalahan pencatatan, keterlambatan informasi, dan kesulitan dalam mengakses data secara menyeluruh dan *real-time*. Berdasarkan permasalahan tersebut, penelitian ini bertujuan untuk merancang sistem informasi berbasis web yang dapat membantu pencatatan dan pengelolaan data bahan baku secara lebih terstruktur, akurat, dan mudah diakses. Pengembangan sistem menggunakan metode *Rapid Application Development* (RAD), yang memungkinkan pembangunan sistem dilakukan secara cepat serta melibatkan pengguna secara aktif pada setiap tahap pengembangan. Sistem dirancang dengan pendekatan berorientasi objek dan didukung oleh alat bantu pemodelan Unified Modeling Language (UML) seperti *Use Case Diagram*, *Activity Diagram*, *Class Diagram*, dan *Sequence Diagram*. Hasil dari penelitian ini adalah rancangan sistem informasi yang mampu mencatat aktivitas produksi serta keluar-masuknya bahan baku secara sistematis dan akurat. Dengan diterapkannya sistem ini, diharapkan Konveksi Artomoro dapat mengelola data produksi dan bahan baku secara lebih efisien, tepat, dan mendukung kelancaran proses operasional secara menyeluruh.

Kata Kunci : Sistem Informasi, Konveksi, RAD, Bahan Baku, UML

Web-Based Raw Material Inventory Information System at Artomoro Convection Using the Rapid Application Development (RAD) Method

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Abstract

Konveksi Artomoro is a business engaged in the production of clothing, particularly jeans and cargo pants. In its daily operations, the recording of raw materials and production activities is still carried out manually, which can lead to various issues such as recording errors, delays in information delivery, and difficulties in accessing data comprehensively and in real time. To address these problems, this study aims to design a web-based information system that can assist in the recording and management of raw material data in a more structured, accurate, and accessible manner. The system development adopts the Rapid Application Development (RAD) method, which allows for faster development while actively involving User at every stage. The system is designed using an object-oriented approach and is supported by modeling tools based on the Unified Modeling Language (UML), including Use Case Diagrams, Activity Diagrams, Class Diagrams, and Sequence Diagrams. The result of this study is a system design capable of systematically and accurately recording production activities as well as the inflow and outflow of raw materials. With the implementation of this system, Konveksi Artomoro is expected to manage production and raw material data more efficiently and accurately, thereby supporting the overall smooth operation of the business.

Keywords: Information System, Garment Production, RAD, Raw Materials, UML