ABSTRAK

CV. Bumiputera Persada Industri merupakan perusahaan konveksi yang menjalankan pemasaran, pemesanan, dan pencatatan pesanan melalui beberapa media yang belum terintegrasi. Kondisi tersebut menyebabkan informasi pesanan, persediaan produk jadi, dan perkembangan produksi belum dapat dikelola secara terpusat. Penelitian ini bertujuan untuk membangun sistem informasi *e-commerce* berbasis *website* yang mengintegrasikan proses pemasaran, pemesanan produk jadi dan produk kustom, pembayaran, pengelolaan persediaan, serta pemantauan produksi. Pengembangan sistem dilakukan menggunakan metode *Rapid Application Development* (RAD) melalui tahapan *requirement planning*, *user design*, *construction*, dan *cutover*. Sistem dibangun dengan Vue.js pada sisi *frontend*, Express.js pada sisi *backend*, serta MySQL sebagai basis data. Pembayaran digital diterapkan melalui integrasi Midtrans. Pengujian sistem dilakukan menggunakan *Black Box Testing* untuk memeriksa kesesuaian fungsi dan *User Acceptance Testing* untuk memastikan sistem telah memenuhi kebutuhan pengguna. Hasil penelitian menunjukkan bahwa fitur-fitur yang dikembangkan dapat dijalankan sesuai skenario pengujian serta membantu perusahaan mengelola pesanan, persediaan produk jadi, dan proses produksi secara terintegrasi.

Kata kunci: *E-Commerce,* Sistem Informasi, *Rapid Application Development*, *User Acceptance Test*

ABSTRACT

CV. Bumiputera Persada Industri is a garment manufacturing company that manages its marketing, ordering, and order-recording activities through several unintegrated channels. This condition prevents order information, finished-product inventory, and production progress from being managed centrally. This study aims to develop a web-based e-commerce information system that integrates marketing, finished and custom product ordering, payments, inventory management, and production monitoring. The system was developed using the Rapid Application Development (RAD) method, which consists of the requirement planning, user design, construction, and cutover stages. Vue.js was used for the frontend, Express.js for the backend, and MySQL as the database. Digital payment functionality was implemented through Midtrans integration. Black Box Testing was conducted to verify the functionality of the system, while User Acceptance Testing was performed to ensure that the system met user requirements. The results show that the developed features operated according to the defined testing scenarios and helped the company manage orders, finished-product inventory, and production processes in an integrated manner.

Keywords: *E-Commerce, Information System, Rapid Application Development, User Acceptance Test*