ABSTRAK

CV. Hamim Group merupakan perusahaan percetakan yang menyediakan beragam layanan dan produk. Dalam pengelolaan pesanannya, perusahaan ini masih mengandalkan Microsoft Excel, yang menimbulkan beberapa kendala seperti risiko kesalahan input data, kesulitan pelacakan pesanan, keterbatasan skalabilitas, serta ketidakmampuan mengelola informasi tidak terstruktur. Penelitian ini bertujuan untuk merancang dan mengimplementasikan Aplikasi Point of Sale berbasis desktop untuk mengatasi permasalahan tersebut. Penelitian dilaksanakan selama 60 hari, dari 15 Januari hingga 15 Maret 2024. Metodologi pengembangan mengadopsi pendekatan System Development Life Cycle (SDLC) dengan model Waterfall, meliputi tahapan Analisis Kebutuhan, Desain, Implementasi, Pengujian, dan Pemeliharaan. Aplikasi dikembangkan menggunakan bahasa pemrograman Python dengan database SQLite. Fitur utama aplikasi meliputi pencatatan informasi pesanan yang menyeluruh, pembuatan laporan otomatis, kemampuan backup dan restore data, serta pengelolaan dokumen tidak terstruktur. Pengujian dilakukan menggunakan metode Black Box Testing untuk memastikan fungsionalitas sesuai rancangan. Hasil penelitian menunjukkan bahwa aplikasi berhasil meningkatkan efisiensi operasional CV. Hamim Group, meminimalisir kesalahan input data, meningkatkan efisiensi pelacakan pesanan, memperbaiki skalabilitas sistem, dan mengoptimalkan pengelolaan informasi. Implementasi aplikasi ini diharapkan dapat mendukung pertumbuhan bisnis CV. Hamim Group di masa depan.

Kata kunci: *Point of Sale*; Desktop; CV. Hamim Group; *Python*; *SQLite*

ABSTRACT

CV. Hamim Group is a printing company that provides a variety of services and products. In managing its orders, the company still relies on Microsoft Excel, which creates several obstacles such as the risk of data input errors, difficulty tracking orders, limited scalability, and the inability to manage unstructured information. This research aims to design and implement a desktop-based Point of Sale Application to overcome these problems. The research was conducted for 60 days, from January 15 to March 15, 2024. The development methodology adopted the System Development Life Cycle (SDLC) approach with the Waterfall model, including the stages of Needs Analysis, Design, Implementation, Testing, and Maintenance. The application was developed using the Python programming language with a SQLite database. The main features of the application include comprehensive recording of order information, automatic report generation, data backup and restore capabilities, and unstructured document management. Testing was conducted using the Black Box Testing method to ensure functionality as designed. The results showed that the application succeeded in increasing the operational efficiency of CV Hamim Group, minimizing data input errors, increasing order tracking efficiency, improving system scalability, and optimizing information management. The implementation of this application is expected to support the business growth of CV. Hamim Group in the future.

Keywords: *Point of Sale, Desktop, CV. Hamim Group, Python, SQLite.*