ABSTRACT

CV Mirasa Jaya Magelang is a company engaged in the dry biscuit manufacturing industry and is currently facing operational efficiency issues due to administrative management processes that are still carried out manually and centralized under the Production Director. This condition results in a high administrative workload, which hinders the Production Director from performing strategic managerial functions. Administrative activities such as recording marketing invoices, managing accounts receivable, compiling marketing recapitulations, managing expenditures, and preparing production summaries involve complex and interrelated business process flows. The complexity of these processes causes data management to be time-consuming and inefficient. Based on these issues, this study aims to design and develop a web-based Management Information System (MIS) that is capable of digitizing and integrating the company's core business processes, particularly in the financial, production, and marketing aspects. The developed system is expected to reduce dependence on manual processes, minimize data duplication, and accelerate managerial decision-making. The development of this management information system adopts the ICONIX Process, a structured use case–driven approach. This method is implemented through four main stages: the requirement stage, which includes the identification of functional and non-functional requirements as well as initial system modeling; the analysis/preliminary design stage, which applies robustness analysis to bridge user requirements and system design; the design stage, which involves detailed design using sequence diagrams and class diagrams; and the implementation stage, which utilizes the Laravel framework with a Model–View–Controller (MVC) architecture. The result of this study is a functional and integrated web-based management information system that can be accessed by three main user roles: Admin, Production Director, and Owner. The system provides various supporting features, including raw material management, production recipes, employee data management, payroll processing, marketing recapitulation, accounts receivable management, and production summary reporting. System testing was conducted using the black-box testing method and demonstrated that all system functionalities operate in accordance with the defined requirements. With the implementation of this management information system, administrative activities that were previously complex and involved numerous steps can be simplified and executed more quickly and in a more structured manner. The impact of the system's implementation on CV Mirasa Jaya includes improved efficiency and accuracy in data management, as well as the availability of more time for the Production Director to focus on strategic planning and business development.

Keywords : Management Information System, ICONIX Process, Software Development, MVC (Model View Controller) Architecture