ABSTRACT

PT. Tunas Sarana Niaga is a company engaged in waste management utilizing incinerator technology, which heavily relies on the availability of machine spare parts in its operations. The current stock management process, which is still conducted manually, presents various issues such as input errors, data loss, and delays in procurement. This study aims to design and implement a web-based inventory management information system to enhance the effectiveness of inventory monitoring and recordkeeping. The system development adopts the Waterfall method, encompassing the stages of requirements analysis, system design, implementation, testing, and evaluation. Development tools include Laravel as the backend framework, MySQL for the database, and Visual Studio Code as the code editor. The system provides features for recording incoming and outgoing goods, as well as centralized inventory data management. Based on the testing results, all major functionalities operate as expected and contribute to improving operational efficiency and recording accuracy. The implementation of this system offers a structured and reliable solution for inventory management.

Keywords: Information System, Stock Management, Web-Based, Laravel, PT. Tunas Sarana Niaga