

ABSTRACT

This study builds a web-based cash out management information system using the Long Short-Term Memory (LSTM) algorithm at Basuki Jaya Pharmacy. The main problem faced by this pharmacy is the redundancy of work in recording expenses, where employees report expenses via WhatsApp and data must be manually transferred to Excel every month for categorization by the owner. The research methods include data collection, needs analysis, system design with UML and ERD, and implementation using PHP, Laravel, and TensorFlow. The system has two access rights: employees for transaction input and owners for categorization and predictive analysis. The results of the study show that the system successfully overcomes job redundancy, integrates the recording and categorization processes, produces detailed reports, and implements an LSTM model that is able to predict spending trends by considering seasonal and temporal patterns. This system improves the efficiency of pharmacy financial management and supports data-based strategic decision making.

Keywords: *Information System, Cash Management, LSTM, Machine Learning, Expenditure Prediction, Pharmacy*