IMPLEMENTATION OF A MOBILE WEB-BASED CASHIER SYSTEM TO IMPROVE TRANSACTION EFFICIENCY (CASE STUDY: BLUNYAH FARMA PHARMACY)

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ABSTRACT

The motivation driving this research is the operational challenges at Blunyah Farma Pharmacy, which currently relies on a manual transaction recording and inventory management system. This conventional approach leads to slow customer service, a high risk of human-factor recording errors, and difficulties generating accurate, timely financial reports. The objective of this study is to design and develop an integrated web- and mobile-based cashier information system to enhance transaction efficiency and simplify drug data management. The system development follows the Waterfall methodology, encompassing the stages of requirements analysis, system design, program implementation, and testing. The system was developed using the PHP programming language with the Laravel framework and the MySQL database, and features a responsive interface to ensure optimal access on desktop and smartphone devices. The outcome of this research is a cashier application with key features including drug and supplier data management, sales transaction processing (Point of Sale), real-time stock monitoring through a dashboard, and automatic sales report generation. Based on testing and implementation results, this system effectively assists Blunyah Farma Pharmacy in accelerating transaction processing, minimising calculation errors, and providing reliable data reports to support business decision-making.

Keywords: Cashier Information System, Mobile Web, Transaction Efficiency, Point of Sales, Waterfall Method