

ABSTRACT

DESIGN AND DEVELOPMENT OF POINT OF SALE APPLICATION FOR ANDROID WITH RAPID APPLICATION DEVELOPMENT METHOD (CASE OBSRVATION: KEDAI MARJOK)

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The rapid advancement of technology has significantly enhanced the efficiency and speed of information dissemination, particularly in the business sector. Mobile devices such as smartphones have become crucial tools for facilitating transactions, leading many businesses to employ digital cashier applications like Point of Sales (POS) systems to improve transaction processes. This study focuses on designing and developing an Android-based POS application using the Rapid Application Development (RAD) method for Kedai Marjok, a traditional store that still uses conventional transaction methods, involving manual daily recording and calculation of sales, often resulting in discrepancies between reported sales and received cash. The aim is to create a POS system that streamlines transaction recording, stock management, and sales reporting. The RAD method allows for quick development and user feedback integration, ensuring the application effectively meets user needs. The development process includes requirements planning, design workshops, and implementation, with the initial prototype refined based on user feedback. Functional testing using the Black Box Testing method indicates that all application functions operate correctly and as expected without errors. Usability testing with the System Usability Scale (SUS) yielded an average score of 82%, which falls into the "A" category with an "Excellent" level of feasibility and user acceptance. The resulting Android-based POS application is expected to enhance the efficiency of transaction recording and reporting at Kedai Marjok, reduce errors, and improve overall business operations, while also serving as a reference for other small businesses seeking to adopt digital solutions for transaction management.

Keywords: *Point of Sale Application, RAD Method, Android, Book keeping, Kedai Marjok*