

ABSTRACT

MVP (MODEL VIEW PRESENTER) IMPLEMENTATION IN THE ANDROID-BASED APPLICATION FOR ORDERING CAKES AND MSME SNACKS

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Smartphone technology has transformed transaction methods such as ordering, payment, and management for culinary SMEs. With the increasing use of smartphones, the demand for applications capable of processing transactions in the culinary sector is growing. Culinary SMEs often face challenges in order management, payment processing, and administration. Slow manual processes prone to errors can hinder business efficiency and productivity. To address these issues, a specialized Android application for ordering cakes and snacks has been developed to enhance accessibility and productivity for culinary SMEs. Rapid Application Development (RAD) methodology and MVP architecture were employed in developing this application. RAD is a software development approach focusing on object-oriented concepts aimed at accelerating design and implementation processes. The application is built using Kotlin for the Android platform, PHP for the web-based management, and Firebase as the backend. The system for ordering cakes and snacks is now digitized through the Android app for customers and a website for management, simplifying the ordering process and enhancing administrative efficiency. Blackbox testing showed 100% results on the website and 97% on Android, significantly improving order management efficiency and effectiveness.

Keywords: *MVP, Rapid Application Development, Android, Website, Ordering Application.*