

Aplikasi Manajemen Keuangan untuk Operasional Bisnis Frutimart dengan Pendekatan *Lean Software Development*

Financial Management Application for Frutimart Business Operation by Lean Software Development Approach

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Abstract

Frutimart is a fresh fruit shop in Garut that faces challenges in their financial management issues, such as monitoring fruit stocks, processing orders, and organizing deliveries by couriers. Therefore, Frutimart needs an effective and efficient financial management application to help overcome these problems. But in the development of Frutimart there are obstacles in the form of limited human resources, software, hardware, and costs. This research aims to address these specific issues by developing a tailored financial management application for Frutimart. The chosen methodology is Lean Software Development (LSD), integrating Lean Startup and Scrum frameworks to optimize the development process. The implementation of LSD principles, particularly in prioritizing features based on user value, directly contributed to more efficient stock monitoring, streamlined order processing, and enhanced delivery organization. By focusing on these critical areas, the development team successfully reduced waste by approximately 18% in the application's development. The Lean Startup approach was instrumental in rapidly validating and adapting to Frutimart's specific needs, ensuring that the application effectively resolved the core issues. Moreover, the Scrum framework facilitated agile project management, which was pivotal in achieving 100% of the sprint goals. This approach proved highly effective in adapting to changes and responding promptly to the dynamic requirements of Frutimart's business operations. In conclusion, this study not only demonstrates the practical and quantitative benefits of integrating LSD, Lean Startup, and Scrum but also highlights how this combined methodology specifically addresses the challenges of stock monitoring, order processing, and delivery coordination in a retail environment. The resultant application significantly improves the efficiency and effectiveness of Frutimart's financial management, underscoring the value of this tailored development approach.

Keywords: *lean software development, lean startup, scrum*