

ANDROID BASED FINANCIAL APPLICATION DEVELOPMENT FOR A COOPERATIVE CANTEEN USING THE RATIONAL UNIFIED PROCESS

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ABSTRACT

The Koperasi Politeknik Negeri Bengkalis (Polbeng) is still having some trouble managing the finances for its canteen unit. Their current system, which relies on manual records and Excel, means member data isn't really integrated well. It's also prone to errors and just not very efficient. This makes co-op members a bit unsure about how accurate their financial data really is. This research project aimed to build an Android-based financial app that could integrate member data in real-time and make it easier for members to manage their finances. The hope was that this app would solve the existing problems, make the co-op's financial management more efficient, and give members more transparency. We developed this app using the Rational Unified Process (RUP) method, which is structured and iterative. We chose this method because it lets us develop the system step-by-step and involves users from the very beginning of the development process. The results of our research, shown through blackbox testing and User Acceptance Testing (UAT) with co-op managers, members, and the accounting team, prove that the app works well. Data is effectively integrated between the website system and the Android app, and the data provided also follows the Financial Accounting Standards for Micro, Small, and Medium Entities (SAK EMKM), making the data structured and accurate. This app offers significant benefits for members in accessing financial information in real-time. It doesn't just simplify the co-op's financial management; it also boosts member trust and encourages active participation in co-op activities.

Keywords: *Android, Cooperative, Financial application, Rational Unified Process*