ABSTRACT

DESIGN AND DEVELOPMENT OF POST-HARVEST DISTRIBUTION MANAGEMENT PALM BUNCHES APPLICATION FOR ANDROID-BASED USING THE WATERFALL METHOD

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In this age of increasing technology, information is also growing rapidly that makes the activity more advanced. Information technology is used to process data, including processing, obtaining, assembling, storing data in various ways to produce quality information, i.e. relevant, accurate and timely information, used for personal, business and government purposes. Manual data management is now increasingly abandoned, due to the lack of efficiency in its management and documentation, so that most companies, especially companies in the field of agriculture, have already used information technology to solve the problem. However, there are still companies that still use manual methods to manage data. The aim of this study is to design applications that can help the process of planting the palm coconut harvest. In the process of making applications use the development method using the waterfall method because its application is easy with a sequential or sequential development flow starting from analysis, design, implementation, testing, installation and maintenance so that it can minimize errors and no user intervention. Implementation of development using Android Studio software with the Kotlin programming language. Testing using the white box and black box methods on the post-harvest palm coconut distribution management application. The results of the white box test of the three tested functions were all declared successful and the results of black box testing of the five tested modules were all stated successful. In other words, applications that are made successful and valid according to needs and functions.
Key word: *mobile app, android, waterfall, palm oil*