

ABSTRACT

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ANALYSIS OF ANCOL APPLICATION DEVELOPMENT USING THE REUSE-BASED SOFTWARE ENGINEERING METHOD

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(xv+113+Appendix)

Ancol has a website that supports visitor activities to purchase tickets, online payments, and obtaining other information about Ancol area. Apart from having a website-based system as a ticket sales technology solution, Ancol has also released Android and iOS-based applications. Ancol application purpose is to make it easy for potential visitors to create transactions using a smartphone, as well as provide a better user experience. In terms of data management and operations, Ancol websites and applications are managed by different organizational groups. This causes several differences between website and application, both in terms of process flow, operations and system functions. Therefore, Ancol wants to carry out further development of Ancol application by aligning features and rewriting program code. This study analyzes ancil application development using reuse-based software engineering method, with the purpose of knowing reusable assets in further Ancol application development. Using reuse-based software engineering can speed up time and save development costs. The results showed that estimated development time was 12% faster and estimated development costs were 23% more efficient when compared to initial calculations by experts from IT Policy & Business Solution Department of PT Taman Impian Jaya Ancol.

Bibliography (2011 - 2022)