Implementasi Pengujian Functional Requirement Aplikasi Fraud Deterrence Propeller V.2 Menggunakan Pendekatan Black Box dan White Box

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ABSTRAK
Fraud Deterrence Propeller V.2 (FDP V.2) merupakan aplikasi yang dikembangkan untuk mendeteksi potensi kecurangan pada laporan keuangan dengan tujuan mengurangi risiko kerugian finansial maupun reputasi. Penelitian ini bertujuan untuk merancang dan mengimplementasikan pengujian functional requirement pada FDP V.2 menggunakan pendekatan black box testing dan white box testing. Pengujian dilakukan melalui perancangan test plan dan test case yang sesuai dengan skenario penggunaan nyata, mencakup unit testing, integration testing, serta teknik Equivalence Partitioning. Hasil pengujian menunjukkan nilai test coverage dan branch coverage yang tinggi pada setiap modul, menandakan jalur logika telah diuji secara menyeluruh dan interaksi antar modul berjalan sesuai kebutuhan. Dengan demikian, FDP V.2 terbukti memenuhi spesifikasi fungsional, memiliki kinerja yang andal, serta mampu mendukung proses mitigasi risiko kecurangan secara efektif.

Kata kunci: fraud detection, black box testing, white box testing, functional testing, laporan keuangan.

ABSTRACT
Fraud Deterrence Propeller V.2 (FDP V.2) is an application developed to detect potential fraud in financial statements with the aim of reducing the risk of financial loss and reputational damage. This study aims to design and implement functional requirement testing on FDP V.2 using black box testing and white box testing approaches. The testing process involves designing a test plan and test cases that align with real-world usage scenarios, covering unit testing, integration testing, and the Equivalence Partitioning technique. The test results indicate high test coverage and branch coverage values for each module, demonstrating that the logic paths have been thoroughly tested and that inter-module interactions function as required. Therefore, FDP V.2 has been proven to meet functional specifications, deliver reliable performance, and effectively support the fraud risk mitigation process.

Keywords: fraud detection, black box testing, white box testing, functional testing, financial statements.