USP FUND LOAN PROPOSAL SELECTION QUALITY TESTING USING ISO 9126 STANDARDS

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ABSTRACT

Software quality is the conformity expected of all software built in terms of preferred software functions and software performance, documented software development standards and characteristics exhibited by the software. To fulfill a quality system, the researchers tested the system using the ISO 9126 standard. This research was conducted to test the quality of the USP Fund Loan Proposal Selection Application by using 6 characteristics from the ISO 9126 standard, namely functionality, usability, reliability, efficiency, portability and maintainability. The ISO 9126 standard was chosen because it has the advantage that the characteristics defined can be applied to any type of software while providing consistent terminology for software quality. Based on the test results of the USP Fund Loan Proposal Selection Application in terms of the functionality aspect the system can run according to its function and has a value of 91% and has a Very Good interpretation, for the reliability aspect the system also runs well with an access success rate of 99% and meets the reliability aspect, the usability aspect is declared feasible with the test results worth 90% and has a Very Good interpretation, the efficiency aspect using GTMetrix gets a score of 92% and PageSpeedInsights scores 82% and fulfills the efficiency aspect, the portability aspect has met the portability value standard by conducting manual tests and the maintainability aspect has met the maintainability value standard.

Keyword *: Testing, Software quality, ISO 9126, Software Testing Life Cycle (STLC), USP*