QUALITY TESTING OF BENGKALIS DISTRICT GOVERNMENT WEBSITE BASED ON ISO 9126 STANDARD

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ABSTRACT

The Bengkalis Regency Government website is an official website as one of the government's efforts to improve public services and information transparency. The success of a government website is not only determined by its existence but also by its quality. This study aims to test the quality of the Bengkalis Regency Government website based on the ISO 9126 standard with six quality characteristics set by the ISO 9126 standard, namely functionality, reliability, usability, efficiency, maintainability, and portability. This test is also carried out using the Mean Opinion Score (MOS) method which is a method of measuring the performance and quality of applications built from the user's side by involving 5 characteristics namely functionality, reliability, usability, efficiency, and portability and produces an average value of 77% with a feasibility value of "Good". Based on the test results using black-box testing on functionality gives a value of 100% with the category "Very Good". Testing is also carried out using tools such as reliability using the WAPT tool giving a value of 99% with the category "Very Good", efficiency using GTMetrix getting an average value of 72.61% with the category "Good" and an average load time of 6.91 seconds, on maintainability using observation on the website and assisted by PHPMetrics giving a cyclomatic complexity value of 24.00 with a value of 75% with the category "Good" while on portability using BrowserStack giving 100% success with the category "Very Good".

Keywords: Testing, ISO 9126, Mean Opinion Score (MOS)