

EVALUASI KUALITAS PERANGKAT LUNAK DENGAN STANDAR ISO 25010 (STUDI KASUS: CONTENT MANAGEMENT SYSTEM (CMS) DESA WONOSARI)

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ABSTRAK

Content Management System (CMS) adalah suatu sistem yang digunakan untuk mengelola dan memfasilitasi proses pembuatan, pembaharuan, dan publikasi konten secara bersama (*collaborative content management*). Saat ini *Content Management System* telah digunakan Di Desa Wonosari Bengkalis. Namun saat ini, belum diketahui berapa tingkat kualitas *Content Management System* ini. Dari permasalahan diatas penelitian ini dilakukan untuk mengukur kualitas *Content Management System* Desa Wonosari ini dengan menggunakan standar kualitas ISO 25010 yang meliputi 8 karakteristik yaitu, *Functional Suitability*, *Reliability*, *Performance Efficiency*, *Usability*, *Security*, *Compatibility*, *Maintainability*, Dan *Portability*. Hasil dari penelitian ini adalah aplikasi ini telah memenuhi standar kualitas perangkat lunak ISO 25010 dan layak digunakan dengan *Functional Suitability* 100 % yang mana sangat baik, *performance efficiency* dengan *load response time* rata-rata 1.9 detik yang mana dikatakan baik, *compatibility* 100 % yang mana sangat baik, *usability* 78,6% yang mana dapat *grade* layak, *reliability* 0.02 % yang mana mendapat nilai baik, *security* dengan hasil tingkat *medium*, *Maintainability* 70,2% yang mana mendapat nilai cukup dan *portability* yang telah lulus diujicobakan ke 7 perangkat sehingga dikatakan sangat baik.

Kata Kunci: *Content Management System*, kualitas perangkat lunak, ISO 25010, STLC

SOFTWARE QUALITY EVALUATION WITH ISO 25010 STANDARD (CASE STUDY: CONTENT MANAGEMENT SYSTEM (CMS) WONOSARI VILLAGE)

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ABSTRACT

Content Management System (CMS) is a system used to manage and facilitate the processes of content creation, updating, and publication collaboratively. Currently, a Content Management System is being used in Wonosari Village, Bengkalis. However, its level of quality is not known at present. This research aims to measure the quality of the Content Management System in Wonosari Village using the ISO/IEC 25010 quality standard, which includes 8 characteristics: Functional Suitability, Reliability, Performance Efficiency, Usability, Security, Compatibility, Maintainability, and Portability. The results of this study indicate that the application meets the ISO 25010 software quality standards and is deemed suitable for use with 100% Functional Suitability, which is excellent. The performance efficiency is rated as good with an average load response time of 1.9 seconds. Compatibility is also excellent at 100%. Usability scores 78.6%, which is considered acceptable. Reliability scores 0.02%, indicating a good level of reliability. Security is rated at a medium level. Maintainability scores 70.2%, which is considered satisfactory. The application's portability has been successfully tested on 7 devices, making it highly commendable.

Keyword: *Content Mangement System, software quality, ISO 25010, STLC*