

IMPLEMENTASI ISO/IEC 25010 DALAM PENGEMBANGAN PERANGKAT LUNAK AUDIT PENDAPATAN BERBASIS WEBSITE

MOSAD CAHYO USODO

ABSTRAK

Kebutuhan akan perangkat lunak yang dapat mendukung proses audit pendapatan secara efisien dan akurat bagi lembaga pendidikan sangatlah tinggi. Oleh karena itu, pengembangan perangkat lunak yang andal dan terjamin kualitasnya sesuai standar menjadi sebuah keharusan. Penelitian ini menjawab tantangan tersebut dengan mengembangkan dan mengevaluasi kualitas perangkat lunak audit pendapatan berbasis web menggunakan standar ISO/IEC 25010. Perangkat lunak dikembangkan dengan metode *Waterfall*, dan kualitasnya diuji pada delapan karakteristik standar tersebut. Hasil pengujian menunjukkan kualitas sangat baik: *Functional Suitability*, *Compatibility*, dan *Portability* berhasil 100%; *Performance Efficiency* (skor 99), *Usability* (SUS 87,25), *Reliability* (~99%), dan *Maintainability* (rating 'A') juga mencapai nilai unggul. Karakteristik *Security* memenuhi standar dasar dengan catatan perbaikan. Perangkat lunak ini disimpulkan sangat layak untuk menjawab kebutuhan lembaga pendidikan terkait dan membuktikan efektivitas standar ISO/IEC 25010 dalam menjamin kualitas produk.

Kata Kunci: Audit Pendapatan, Kualitas Perangkat Lunak, ISO/IEC 25010, *Website*, Model *Waterfall*

IMPLEMENTATION OF ISO/IEC 25010 IN THE DEVELOPMENT OF WEB-BASED REVENUE AUDIT SOFTWARE

MOSAD CAHYO USODO

ABSTRACT

The need for software that can efficiently and accurately support the revenue audit process for educational institutions is significantly high. Therefore, the development of reliable software with quality assurance according to standards has become a necessity. This research addresses this challenge by developing and evaluating the quality of a web-based revenue audit software using the ISO/IEC 25010 standard. The software was developed using the Waterfall model, and its quality was tested against the standard's eight characteristics. The results indicate excellent quality: Functional Suitability, Compatibility, and Portability achieved 100% success; Performance Efficiency (score 99), Usability (SUS 87.25), Reliability (~99%), and Maintainability ('A' rating) also achieved outstanding results. The Security characteristic meets basic standards with notes for improvement. The software is concluded to be highly feasible for meeting the needs of educational institutions and proves the effectiveness of the ISO/IEC 25010 standard in ensuring product quality.

Keywords: Revenue Audit, Software Quality, ISO/IEC 25010, Website, Waterfall Model