

ABSTRAK

Perkembangan teknologi dan sistem informasi telah memberikan dampak pada bidang pendidikan, salah satunya melalui penggunaan media pembelajaran berbasis *e-learning*. SMK Muhammadiyah 1 Yogyakarta memanfaatkan sistem e-learning bernama LMS-MUHIYO untuk mendukung kegiatan belajar mengajar secara daring. Agar proses pembelajaran dapat berjalan dengan baik, sistem tersebut perlu mampu meminimalisir berbagai gangguan dan permasalahan yang dapat menghambat aktivitas pengguna. Oleh karena itu, diperlukan evaluasi kualitas pada sistem informasi LMS-MUHIYO untuk mengetahui tingkat kualitas sistem serta mengidentifikasi potensi masalah yang masih terdapat di dalamnya.

Pada penelitian ini, evaluasi yang dilakukan adalah dengan menggunakan standar ISO/IEC 25010 sebagai acuan pengujian. Pengujian yang dilakukan menggunakan model kualitas produk atau *Product Quality Model*, dan menggunakan seluruh karakteristik yang tersedia, yakni *Functional Suitability*, *Performance Efficiency*, *Compatibility*, *Usability*, *Reliability*, *Maintainability*, *Portability*, *Security*.

Hasil pengujian menunjukkan bahwa beberapa aspek yang telah memenuhi standar meliputi functional suitability dengan nilai 1, usability dengan skor 74,07%, compatibility dengan skor 100%, reliability dengan skor 99,99%, maintainability dapat memenuhi aspek identifikasi Land, serta portability dengan skor 100%. Namun demikian, masih terdapat dua aspek yang belum memenuhi standar, yaitu performance efficiency yang belum mencapai kriteria yang diharapkan, serta security yang berada pada level High, sementara standar minimal yang masih dapat ditoleransi adalah level low.

Hasil dari evaluasi dan penelitian ini diharapkan dapat menjadi acuan bagi SMK Muhammadiyah 1 Yogyakarta dalam meningkatkan kualitas sistem informasi *e-learning* LMS-MUHIYO.

Kata Kunci: Evaluasi, Sistem Informasi, Kualitas, *E-learning*, ISO/IEC 25010

ABSTRACT

The development of technology and information systems has had an impact on the field of education, one of which is through the use of e-learning-based learning media. SMK Muhammadiyah 1 Yogyakarta utilizes an e-learning system called LMS-MUHIYO to support online teaching and learning activities. In order for the learning process to run effectively, the system must be able to minimize various disruptions and issues that may hinder user activities. Therefore, a quality evaluation of the LMS-MUHIYO information system is necessary to determine the system's quality level and identify potential problems that still exist within the system.

In this study, the evaluation was conducted using the ISO/IEC 25010 standard as the testing reference. The testing process employed the Product Quality Model and covered all available characteristics, namely Functional Suitability, Performance Efficiency, Compatibility, Usability, Reliability, Maintainability, Portability, and Security.

The testing results indicate that several aspects have met the standards, including functional suitability with a score of 1, usability with a score of 74.07%, compatibility with a score of 100%, reliability with a score of 99.99%, maintainability fulfilling the instrumentation, consistency, and simplicity aspects, and portability with a score of 100%. However, there are still two aspects that have not met the standards, namely performance efficiency, which has not yet achieved the expected criteria, and security, which is categorized at the High level, while the minimum tolerable standard is the Low level.

The results of this evaluation and research are expected to serve as a reference for SMK Muhammadiyah 1 Yogyakarta in improving the quality of the LMS-MUHIYO e-learning information system.

Keywords: *Evaluation, Information System, Quality, E-learning, ISO/IEC 25010*