

ABSTRAK

Eka Fadila, NIM 5173351010: *Pengembangan Sistem Informasi Pengarsipan Dokumen Berbasis Web di SMKS Dwiwarna Medan*. Skripsi. Fakultas Teknik. Universitas Negeri Medan. 2021

Penelitian ini bertujuan untuk mengembangkan sistem informasi pengarsipan dokumen berbasis web dalam menangani masalah pengarsipan secara konvensional di SMKS Dwiwarna Medan, mengetahui kelayakan pengembangan sistem informasi pengarsipan dokumen berbasis web di SMK Swasta Dwiwarna Medan.

Research and Development (R&D) menjadi pilihan dalam metodologi penelitian ini serta metode waterfall sebagai metode pengembangan produk. Model ini terbagi menjadi lima tahapan yaitu: *Requirements definition, design system, Implementation & unit testing, integration & system testing, and Operation & maintenance*. Pengujian pada website diselesaikan dengan memakai standar ISO 25010 pada lima atribut *functional suitability, usability, reliability, performance efficiency, and portability*.

Hasil dari penelitian ini adalah sebuah website Sistem Informasi Pengarsipan Dokumen yang mampu menyelesaikan permasalahan pengarsipan dokumen-dokumen secara konvensional di SMKS Dwiwarna Medan, adapun hasil pengujian kategori *functional suitability* pada website menunjukkan bahwasanya sistem informasi pengarsipan dokumen berbasis web memperoleh hasil yang baik, pengujian kategori *Usability* mendapatkan hasil 86% dari pengguna sejumlah 20 orang, pengujian *Reliability* menggunakan WAPT mendapatkan 0 error saat dibebankan dengan 20 pengguna, Pengujian *Performance efficiency* menggunakan GTMetrix memperoleh skor A dalam performa website, pengujian *Portability* dapat berjalan pada semua browser yang umum digunakan, dapat dinyatakan bahwa Sistem Informasi Pengarsipan Dokumen berbasis Web telah sesuai standar ISO 25010 pada lima atribut *functional suitability, usability, reliability, performance efficiency, and portability*.

Kata Kunci : *Pengarsipan, Waterfall, ISO 25010*

ABSTRACT

Eka Fadila, NIM 5173351010: Development of a Web-Based Document Archiving Information System at SMK Dwiwarna Medan. Thesis. Faculty of Engineering. State University of Medan. 2021

This study aims to develop a web-based document archiving information system in dealing with conventional archiving problems at SMK Dwiwarna Medan, to determine the feasibility of developing a web-based document archiving information system at SMK Swasta Dwiwarna Medan.

Research and Development (R&D) is the choice in this research methodology as well as the waterfall method as a product development method. This model is divided into five stages, namely: Requirements definition, system design, Implementation & unit testing, integration & system testing, and Operation & maintenance. Tests on the website were completed using the ISO 25010 standard on five functional suitability attributes, usability, reliability, performance efficiency, and portability.

The result of this research is a Document Archiving Information System website that is able to solve the problem of archiving documents conventionally at SMKS Dwiwarna Medan, while the results of testing the functional suitability category on the website show that the web-based document archiving information system gets good results, category testing Usability got 86% results from 20 users, Reliability testing using WAPT got 0 errors when charged with 20 users, Performance efficiency testing using GTMetrix got an A score in website performance, Portability testing can run on all commonly used browsers, it can be stated that The Web-based Document Archiving Information System complies with the ISO 25010 standard on five functional suitability, usability, reliability, performance efficiency, and portability attributes.

Keywords: *Archiving, Waterfall, ISO 25010*

