

Farina Aprilia Kartika. 2024. *Pengembangan Sistem Informasi Tugas Akhir Program Studi Pendidikan Informatika Berbasis Web*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Dosen Pembimbing: Medika Risnasari, S.ST., M.T.

ABSTRAK

Kegiatan pendaftaran dalam administrasi tugas akhir di Pendidikan Informatika dilakukan dengan cara manual, diantaranya menggunakan link *google form*. Kemudian admin tugas akhir juga kesulitan untuk menyampaikan informasi kepada mahasiswa semester akhir. Maka dari itu penelitian ini bertujuan untuk mengembangkan Sistem Informasi Tugas akhir Program studi Pendidikan Informatika Berbasis Web memberikan keluaran kepada mahasiswa berupa kemudahan untuk pendaftaran tugas akhir, serta kemudahan admin tugas akhir mengelola data yang berhubungan dengan mahasiswa & dosen. Metode yang digunakan adalah *Research and Development* (R&D). Menggunakan model *waterfall* terdiri dari tahapan analisis, pemodelan, pengodean, dan pengujian sistem menggunakan ISO 25010 terdiri dari 5 aspek. Hasil yang didapat 1) Aspek *functional suitability* mendapatkan presentase 100% dari ahli sistem dinyatakan “Dapat Diterima”. 2) Aspek *usability* mendapatkan presentase pengujian sebesar 91% yang masuk dalam kategori “sangat baik”. 3) Aspek *performance efficiency* mendapatkan rata-rata kecepatan Sistem 1,7 detik masuk dalam kategori “Sangat Puas” dalam memberikan *experience* yang baik bagi pengguna. 4) Aspek *reliability* tersebut tidak terjadi *error* sehingga disimpulkan presentase hasil 99% diatas standar minimal *Telcordia* yaitu 95%, sehingga memenuhi karakteristik pengujian *reliability*. 5) Aspek *Maintainability* sudah memenuhi ke-3 kategori karena mudah dirawat, dapat disimpulkan Sistem Informasi Tugas Akhir Program Studi Pendidikan Informatika memenuhi kriteria pengujian *maintainability*.

Kata kunci: ISO 25010, Sistem Informasi Tugas Akhir, *Waterfall*, *Website*

Farina Aprilia Kartika. 2024. *Development of a Web-Based Final Project Information System for the Informatics Education Study Program*. Thesis, Informatics Education Study Program, Faculty of Education, Trunojoyo University Madura. Supervisor: Medika Risnasari, S.ST., M.T.

ABSTRACT

Registration activities in final assignment administration in Informatics Education are carried out manually, including using the Google form link. Then the final project admin also finds it difficult to convey information to final semester students. Therefore, this research aims to develop a Web-Based Final Assignment Information System for the Informatics Education study program to provide output to students in the form of ease in registering final assignments, as well as ease in final assignment admins managing data related to students & lecturers. The method used is Research and Development (R&D). Using the waterfall model consists of analysis, modeling, coding and system testing stages using ISO 25010 consisting of 5 aspects. Results obtained: 1) The functional suitability aspect received a percentage of 100% from system experts which was declared "Acceptable". 2) The usability aspect received a test percentage of 91% which was included in the "very good" category. 3) The performance efficiency aspect gets an average system speed of 1.7 seconds, which is in the "Very Satisfied" category in providing a good experience for users. 4) There were no errors in the reliability aspect, so it was concluded that the result percentage was 99% above Telcordia's minimum standard, namely 95%, thus meeting the characteristics of reliability testing. 5) The Maintainability aspect meets all 3 categories because it is easy to maintain. It can be concluded that the Final Project Information System for the Informatics Education Study Program meets the maintainability testing criteria.

Keywords: *Final Project Information System, ISO 25010, Waterfall, Website*