

Devita Sari. 2026. Pengembangan Sistem Informasi Manajemen Ekstrakurikuler Berbasis Web Pada SMPN 2 Kamal. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madura. Pembimbing: Nuru Aini, S.Kom., M.Kom.

ABSTRAK

Proses pengelolaan kegiatan ekstrakurikuler di SMPN 2 Kamal masih dilakukan secara manual sehingga kurang efektif dalam pendataan, absensi, dan penyampaian informasi kegiatan. Penelitian ini bertujuan untuk mengembangkan Sistem Informasi Manajemen Ekstrakurikuler berbasis web pada SMPN 2 Kamal serta mengetahui hasil pengujian sistem berdasarkan standar ISO 25010. Metode pengembangan yang digunakan adalah *System Development Life Cycle* (SDLC) dengan model *waterfall* yang terdiri dari tahap communication, planning, modelling, construction, dan deployment. Pengujian sistem dilakukan berdasarkan standar ISO 25010 yang meliputi aspek *functionality suitability*, *usability*, *portability*, *maintainability*, *compatibility*, *reliability*, dan *security*. Hasil pengujian menunjukkan bahwa aspek *functionality suitability* memperoleh persentase 100%, *usability* sebesar 88,62%, *portability* sebesar 100%, dan *reliability* sebesar 99,57%. Selain itu, pengujian *performance efficiency* menunjukkan waktu *loading* sebesar 1,3 detik pada perangkat desktop dan 3,9 detik pada perangkat mobile. Pada aspek *security*, tidak ditemukan kerentanan pada kategori *critical*, *high*, *medium*, maupun *low*. Berdasarkan hasil pengujian tersebut, Sistem Informasi Manajemen Ekstrakurikuler berbasis web dinyatakan layak digunakan sebagai media pengelolaan kegiatan ekstrakurikuler di SMPN 2 Kamal.

Kata Kunci : sistem informasi, *website*, iso 25010, *waterfall*

Devita Sari. 2026. Development of a Web-Based Extracurricular Management Information System at SMPN 2 Kamal. Thesis, Informatics Education Study Program, Faculty Of Teaching And Education, Trunodjoyo University, Madura. Supervisor: Nuru Aini, S.Kom., M.Kom.

ABSTRACT

The process of managing extracurricular activities at SMPN 2 Kamal is still done manually so it is less effective in data collection, attendance, and delivery of Activity information. This study aims to develop a web-based Extracurricular Management Information System at SMPN 2 Kamal and to determine the results of system testing based on the ISO 25010 standard. The development method used is the System Development Life Cycle (SDLC) with a waterfall model consisting of communication, planning, modeling, construction, and deployment stages. System testing is carried out based on the ISO 25010 standard which includes aspects of functionality suitability, usability, portability, maintainability, compatibility, reliability, and security. The test results show that the functionality suitability aspect obtained a percentage of 100%, usability was 88.62%, portability was 100%, and reliability was 99.57%. In addition, performance efficiency testing showed a loading time of 1.3 seconds on desktop devices and 3.9 seconds on mobile devices. In terms of security, no vulnerabilities were found in the critical, high, medium, or low categories. Based on the test results, the web-based Extracurricular Management Information System was declared suitable for use as a medium for managing extracurricular activities at SMPN 2 Kamal.

Keywords: *information system, website, iso 25010, waterfall*