

MOH AZIZ. 2025. *Pengembangan Sistem Informasi E-Presensi Guru Berbasis Web Menggunakan Qr Code Dan Google Spreadsheet Di Smk Agung*. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing 1: Prita Dellia, S.Kom., M.Kom.

ABSTRAK

Penelitian ini bertujuan untuk mengembangkan sistem informasi e-presensi guru berbasis web dengan pemanfaatan teknologi QR code dan integrasi Google Spreadsheet di SMK Agung Mulia. Sistem dikembangkan guna menjawab tantangan pencatatan kehadiran manual yang rentan terhadap ketidakakuratan, manipulasi data, dan keterbatasan efisiensi administrasi. Metode pengembangan yang digunakan adalah model waterfall, dimulai dari analisis kebutuhan hingga tahap pemeliharaan. Proses pengumpulan data dilakukan melalui wawancara, observasi, dan penyebaran angket kepada validator ahli dan pengguna. Hasil pengujian menunjukkan bahwa sistem yang dikembangkan telah memenuhi kriteria fungsionalitas, kegunaan, dan estetika berdasarkan validasi ahli sistem dan desain, serta memperoleh respon positif dari pengguna. Implementasi sistem ini memungkinkan pencatatan presensi secara real-time, aman, dan terintegrasi langsung dengan penyimpanan cloud, sehingga mempermudah proses rekapitulasi dan pelaporan kehadiran guru. Penelitian ini diharapkan dapat menjadi alternatif solusi presensi digital di lingkungan pendidikan menengah dan mendorong transformasi administrasi berbasis teknologi yang efisien dan transparan.

Kata Kunci: *e-presensi*, sistem informasi, QR code, Google Spreadsheet.

MOH AZIZ. 2025. *Development of a Web-Based Teacher E-Presence Information System Using QR Code and Google Spreadsheet at Smk Agung*. Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, Universitas Trunojoyo Madura. Advisor 1:Prita Dellia, S.Kom., M.Kom.

ABSTRACT

This research aims to develop a web-based teacher e-presence information system by utilizing QR code technology and Google Spreadsheet integration at SMK Agung Mulia. The system was developed to answer the challenges of manual attendance recording which is prone to inaccuracies, data manipulation, and limited administrative efficiency. The development method used is the waterfall model, starting from the needs analysis to the maintenance stage. The data collection process was carried out through interviews, observations, and distributing questionnaires to expert validators and users. The test results show that the developed system has met the criteria of functionality, usability, and aesthetics based on the validation of system and design experts, and obtained positive responses from users. The implementation of this system allows real-time, secure, and directly integrated attendance recording with cloud storage, thus simplifying the process of recapitulating and reporting teacher attendance. This research is expected to be an alternative digital attendance solution in the secondary education environment and encourage efficient and transparent technology-based administrative transformation.

Keywords: e-presence, information system, QR code, Google Spreadsheet.