



ATTENDANCE SYSTEM FOR TEACHERS USING WEB BASED AND MOBILE
APP IN TPQ AL IKHLAS

UNDERGRADUATE THESIS
Submitted as one of the requirements to obtain
Sarjana Komputer (S.Kom.)

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A. PROBLEM FORMULATION

1. Background of the Problem

Efficient and accurate teacher attendance management is an important aspect in the operation of an educational institution, including TPQ Al Ikhlas. A good attendance system not only helps ensure regular teacher attendance, but also increases transparency, accountability, and ease in managing attendance data. However, until now, TPQ Al Ikhlas still uses manual attendance methods, such as recording in physical log books or paper sheets. This method has various weaknesses, including the risk of recording errors, inefficiency in data management, and limited access to real-time information.

The manual attendance system currently used often causes inconsistencies in recording, difficulty in tracking teacher attendance trends, and challenges in creating accurate reports. This has an impact on suboptimal administrative decisionmaking and hinders the effectiveness of resource man... is A led that can overcome these hurdles by providing a more efficient, effective, and easy accessible recording system.

Basic scan Share Export

GPTZero AI Detection Model 8.76

human

We are highly confident this text is entirely human

Probability breakdown

8% AI generated 0% Mixed 92% Human

View AI Sentences AI Words

Advanced Sentence Scanning

Understand how each sentence impacts AI probabilities and with interpretable reports (American Federation Teacher Certified)

Scan to update results Scan

ABSTRACT

Efficient, accurate, and structured teacher attendance management is an important element in supporting the performance of educational institutions, especially in community-based environments such as TPQ. However, many institutions still use manual methods that are prone to recording errors, late reporting, and minimal transparency.

This final project aims to develop a mobile application and a website-based teacher attendance dashboard system that can make it easier for teachers to take attendance and for admins to monitor and manage attendance data in real-time. The case study was conducted at TPQ Al Ikhlas, and the system development was carried out using the Waterfall method, which includes the stages of needs analysis, system design, implementation, testing, and maintenance.

The main objective of this system is to provide a digital attendance solution that is easily accessible, affordable, and capable of producing daily, weekly, and monthly attendance reports automatically. This system will allow digital attendance recording, with the integration of technology such as GPS to validate teacher locations when taking attendance and Google Maps API is used for the location verification feature.

The main features of the dashboard include teacher and admin data management, attendance data, reporting, and location validation settings. The implementation results show significant improvements in administrative efficiency, data accuracy, and transparency of the attendance process. With the simplicity of the display and ease of use, this system is considered feasible to be implemented in similar educational institutions that have limited resources.

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