

ABSTRACT

The main issue in the attendance process of security personnel at PT. Jaka Kuasa Nusantara lies in the manual recording system. This leads to inefficiency, vulnerability to data manipulation, and difficulties in centralized monitoring. The company's input highlights the need for an accurate and automated attendance system, with output in the form of valid, centralized, and real-time attendance records.

This topic is important because attendance data is crucial in employee management, especially in the context of security. The current manual system fails to meet the company's expected standards of accuracy and operational efficiency. The main gap lies in the lack of attendance validation and the reliance on a non-transparent manual process.

The proposed solution involves designing and developing a web-based attendance information system that integrates facial recognition and location tracking technologies. The system was developed using the System Development Life Cycle approach with the throwaway prototyping method and system modeling using UML. It was functionally tested and evaluated based on user feedback through the System Usability Scale.

The results show that the system improves the accuracy and transparency of employee attendance. The user satisfaction score falls into the “good” category, indicating the system is well-received. The main contribution of this research is a digital attendance solution tailored to the operational needs of the company.

Keywords: *employee attendance, information system, face recognition, geolocation, SDLC, usability*