

ABSTRACT

Employee attendance systems play a crucial role in supporting discipline management and performance evaluation in educational institutions. SMP SMA Krista Mitra Semarang has implemented a *fingerprint* device to record employee attendance; however, the data management process remains manual. This study aims to develop a web-based *fingerprint* management application to automate and streamline the attendance data process. The development method used is the Waterfall model, consisting of requirement analysis, system design, implementation, testing, and maintenance phases. The application features include employee data management, attendance processing, and lateness report generation. Testing was conducted using the Black Box Testing method to ensure all functions operate according to requirements. The results show that the application improves attendance management efficiency and supports objective employee performance assessment. With this system, the school can monitor employee discipline in real time and generate reports faster and more accurately.

Keywords : *fingerprint*, employee attendance, information system, web application, Waterfall.