

ABSTRACT

Attendance is a crucial aspect of managing educational activities in Islamic boarding schools. Pondok Pesantren Sabilul Rahmah International Islamic Boarding School (Sabira IIBS) currently uses a manual, paper-based attendance method, which leads to various issues such as delayed data recapitulation, potential recording errors, and low efficiency. To address these problems, this research developed a web-based attendance information system specifically designed to support the operational needs of teacher and student attendance at Sabira IIBS. The system includes GPS-based Check-in and Check-out features, student class attendance, dormitory activity attendance, and centralized data management. The development process adopted the Extreme Programming (XP) methodology and used the Laravel framework as the system's foundation. System testing was conducted using whitebox, blackbox, and User Acceptance Testing (UAT) methods to ensure technical quality and end-user acceptance. The research results show that the developed web-based attendance system successfully meets the operational needs of Sabira IIBS in recording teacher and student attendance across formal school, muadalah, and dormitory activities. The use of the XP method enabled rapid and flexible system development to accommodate user needs. Whitebox and blackbox testing confirmed that the system functions according to the expected logic, while UAT results indicated that the system is user-friendly and facilitates attendance recording and reporting processes.

Keywords: *Attendance, Extreme Programming, Laravel*