

ABSTRACT

Student attendance management is an important aspect of school administration. The manual attendance process often causes various problems, including delays in reporting, recording errors, and lack of data transparency. This research aims to develop online student attendance software that is expected to increase the efficiency in recording attendance. This research produces an online attendance software that can be used by schools to record student attendance in real time and produce student attendance reports that are easily accessible. The software was developed using the waterfall method, which consists of several stages, namely: communication, planning, modeling, construction, and deployment. Each stage in this method is performed sequentially and systematically, ensuring that the software to be produced meets the needs of the user so that it can be properly operated according to its function. Student Online Attendance Software is developed using PHP programming language, CodeIgniter3 framework and MySQL database management system. Student Online Attendance Software features student data management, teacher data management, subjects, classes, homerooms, attendance management and school year. Student Online Attendance Software is tested using black box method with test scenarios based on pre-defined use case scenarios. Student Online Attendance Software has been tested with acceptable results for all existing test scenarios.

Keywords : Online Attendance, Waterfall, Software Development, School Management, Black-Box Testing