

DESIGNING A WEB-BASED STUDENT GRADE PROCESSING INFORMATION SYSTEM

(Case Study: UPTD SMP Negeri 1 Tukdana)

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ABSTRACT

The development of information technology has significantly enhanced the effectiveness of data management in education, particularly in student assessment. SMP Negeri 1 Tukdana continues to face challenges in processing student grades because the assessment system is not yet fully digitized and remains largely conventional. This situation increases the risk of data loss, input errors, data duplication, and inconsistencies in student grade information. This study aims to design and develop a web-based student grade processing information system that addresses teachers' grade management needs. The system was developed using the Agile methodology. System testing was conducted using the black-box testing method to ensure that all functions operate according to established specifications. The test results demonstrated that all 104 test scenarios were successful, achieving a 100% success rate. Additionally, the questionnaire yielded a mean score of 4.32, indicating very good performance. Based on these findings, it can be concluded that the developed web-based student grade processing system is feasible for use and can support a more structured, effective, and efficient student grade management process at SMP Negeri 1 Tukdana.

Keywords: system, information, assessment, students, web.