DESIGN AND BUILD AN ACADEMIC AND VIOLATION MONITORING INFORMATION SYSTEM TO INCREASE THE PARTICIPATION OF PARENTS IN SUPPORTING STUDENTS' ACADEMIC PROCESS

(Case Study: Putra Bangsa Dirgantara Vocational School, Sleman, D.I. Yogyakarta)

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ABSTRACT

Monitoring student development at Dirgantara Putra Bangsa Vocational School experiences problems due to limited communication between parents and teachers and the spread of information in various formats, which results in a lack of comprehensive understanding. This research aims to develop an information system for monitoring academic and student violations using a design approach based on the Unified Modeling Language (UML). Data collection methods include observation, interviews, and literature study to obtain information about teachers, students, parents, grades, violations, achievements, complaints, subjects, school year, and class. The system was developed using the SDLC waterfall method and tested using the Delone and McLean success model method. The research results show that the implementation of this information system has succeeded in increasing parental satisfaction and participation, with a decrease in dissatisfied parents from 921 to 482 points, and an increase in satisfied parents from 757 to 983 points. Tests using the DeLone and McLean success model show very good system quality, with an average score of 91.98% in the aspects of quality of information, systems, services, users, customer satisfaction, and additional benefits, proving the effectiveness of information systems in increasing parental involvement in students' academic processes.

Keywords: Information Systems, Academic Monitoring, Role of Parents