

ABSTRACT

Utoroadji Tunggul Anggoro (2020081077)

DESIGN AND DEVELOPMENT OF AN INTEGRATED WEB-BASED SCHOOL ADMINISTRATION AND ACADEMIC APPLICATION

Education is a vital pillar of societal development, with schools serving as the primary institutions for delivering education. However, challenges in manual school administration management can hinder operational efficiency and quality, particularly in today's digital era. This research aims to design and develop an integrated web-based school administration and academic application using the Laravel 11 Framework and MySQL as the main platforms. The application is designed to integrate student data, parent data, and academic information into a unified system. Key features include student data management, lesson scheduling, academic reporting, and interactive portals for students, teachers, and parents. The application development follows the Waterfall methodology, encompassing phases such as planning, analysis, design, implementation, testing, and maintenance. The research findings are expected to demonstrate that this application can enhance operational efficiency, reduce the potential for human error, improve data security, and provide a scalable system to support future school growth. With this solution, Jakarta Academics School can manage its administration more effectively, support data-driven decision-making, and prepare for the increasingly complex challenges of digital transformation.

Keywords: *Micro-international school, Laravel framework, MySQL database*