

PERANCANGAN SISTEM AKADEMIK PENILAIAN DAN ABSENSI SISWA PADA SMA NEGERI 1 TAJURHALANG

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ABSTRAK

SMA Negeri 1 Tajurhalang menghadapi permasalahan dalam pengelolaan nilai dan kehadiran siswa yang masih dilakukan secara terpisah dan belum terintegrasi, sehingga berdampak pada kinerja pengolahan data, keakuratan informasi, pengendalian akses, efisiensi waktu, serta kualitas layanan akademik. Berdasarkan kondisi tersebut, penelitian ini bertujuan untuk merancang dan membangun sistem informasi akademik berbasis web yang mampu meningkatkan efektivitas dan efisiensi pengelolaan data akademik. Analisis kebutuhan sistem dilakukan menggunakan pendekatan PIECES (Performance, Information, Economy, Control, Efficiency, dan Service) untuk mengidentifikasi permasalahan pada sistem berjalan, khususnya pada aspek lambatnya proses rekapitulasi, potensi ketidaksinkronan data, keterbatasan pengendalian akses, serta kurang optimalnya layanan informasi akademik bagi guru dan siswa. Sistem dikembangkan menggunakan metode prototype, yang memungkinkan keterlibatan langsung pengguna dalam setiap tahap pengembangan sehingga sistem yang dibangun sesuai dengan kebutuhan dan alur kerja di sekolah. Teknologi yang digunakan meliputi bahasa pemrograman PHP, basis data MySQL, dan JavaScript sebagai pendukung antarmuka. Sistem ini menyediakan fitur pengelolaan nilai harian, UTS, dan UAS oleh guru mata pelajaran, pencatatan serta rekapitulasi kehadiran siswa oleh guru piket, serta penyajian laporan akademik yang dapat diakses oleh siswa dalam bentuk informasi nilai dan kehadiran serta unduhan rapor format PDF dan Excel. Hasil penelitian menunjukkan bahwa sistem informasi akademik yang dikembangkan mampu meningkatkan kinerja pengolahan data, ketepatan dan keteraturan informasi akademik, memperbaiki pengendalian data, serta meningkatkan kualitas layanan akademik di SMA Negeri 1 Tajurhalang.

Kata Kunci: *Sistem Informasi Akademik, Pengelolaan nilai, Berbasis web.*

DESIGN OF AN ACADEMIC SYSTEM FOR STUDENT ASSESSMENT AND ATTENDANCE AT SMA NEGERI 1 TAJURHALANG

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ABSTRACT

SMA Negeri 1 Tajurhalang experiences challenges in managing students' academic scores and attendance due to systems that are not yet fully integrated, resulting in issues related to data processing performance, information accuracy, access control, time efficiency, and academic service quality. This research aims to design and develop a web-based academic information system to improve the effectiveness and efficiency of academic data management. The system requirements analysis is conducted using the PIECES approach (Performance, Information, Economy, Control, Efficiency, and Service) to identify existing problems, particularly in the areas of slow data recapitulation, data inconsistency, limited access control, and suboptimal academic information services for teachers and students. The system is developed using the prototype development method, which allows direct user involvement throughout the development stages to ensure that the system aligns with the school's operational needs and workflows. The system is implemented using PHP as the programming language, MySQL as the database management system, and JavaScript to support the user interface. The developed system provides features for managing daily scores, midterm and final examination scores by subject teachers, as well as attendance recording and automatic recapitulation by duty teachers. In addition, students are able to access academic information independently and download academic reports in PDF and Excel formats. The results of this study indicate that the developed academic information system improves data processing performance, enhances the accuracy and organization of academic information, strengthens data control, and improves the quality of academic services at SMA Negeri 1 Tajurhalang.

Keywords: *Academic Information System, Grade management, Web-based system.*