

MUKH. NAUFAL NAZIH, 20.240.0039

SISTEM INFORMASI AKADEMIK BERBASIS WEB DI SMK NEGERI 1 BATANG

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ABSTRAK

Sekolah Menengah Kejuruan (SMK) Negeri 1 Batang di jalan Ki Mangunsarkoro No.2 Dracik Barat, Proyonanggan Selatan, Kabupaten Batang. Permasalahan yang dihadapi yaitu sistem absensi masih menggunakan metode manual menggunakan buku absensi yang memakan waktu dan rawan kesalahan pencatatan. Penyampaian rapot melalui bot WhatsApp tidak memungkinkan penyimpanan riwayat nilai, sehingga orang tua kesulitan memantau perkembangan akademik anak. Penjadwalan moving kelas masih dilakukan secara manual, sering menyebabkan kekeliruan saat siswa memasuki kelas. Metode pengumpulan data yang digunakan adalah observasi dan wawancara. Metode pengembangan sistem yang digunakan waterfall dimulai dari Communication, Planning, Modelling, Construction dan Deployment. Metode pengujian sistem menggunakan White-Box, Black-Box, dan User Acceptance Testing (UAT) sehingga menghasilkan sistem sesuai dengan kebutuhan pengguna. Kesimpulan yang dihasilkan bahwa sistem membantu staff/admin dalam mengelola absensi, mengelola data mapel, data guru, data jadwal, data siswa, data jurusan, data kelas, data user, dan mengelola pengumuman. Sistem membantu guru dalam melakukan absensi guru, melakukan absensi siswa, melihat jadwal mengajar dan penilaian rapot siswa. Sistem membantu siswa/wali siswa dalam melihat absensi, melihat jadwal mata pelajaran, dan melihat nilai rapot. Namun sistem ini masih perlu dikembangkan menjadi berbasis mobile.

Kata Kunci : Sistem Informasi, Akademik, Web, SMK.

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WEB-BASED ACADEMIC INFORMATION SYSTEM AT STATE
VOCATIONAL SCHOOL 1 BATANG

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ABSTRACT

Vocational High School (SMK) Negeri 1 Batang, located at Ki Mangunsarkoro Street No. 2, West Dracik, South Proyonanggan, Batang Regency, faces several challenges. The attendance system still uses manual methods through attendance books, which are time-consuming and prone to recording errors. Report card distribution via WhatsApp bots does not enable the storage of grade history, making it difficult for parents to monitor their children's academic progress. Additionally, the scheduling of moving classes is still done manually, often leading to mistakes when students enter the wrong classroom. The data collection methods used in this study include observation and interviews. The system development method adopted is the Waterfall model, which consists of the following phases: Communication, Planning, Modelling, Construction, and Deployment. The system testing methods applied are White-Box Testing, Black-Box Testing, and User Acceptance Testing (UAT) to ensure the system aligns with user requirements. The conclusion drawn is that the system helps staff/admins manage attendance, subject data, teacher data, schedule data, student data, department data, class data, user data, and announcements. It supports teachers in recording both teacher and student attendance, viewing teaching schedules, and evaluating students' report cards. Furthermore, it enables students and parents to view attendance records, class schedules, and report card grades. However, this system still requires further development to be mobile-based.

Keywords : Information System, Academic, Web, SMK.