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SISTEM MONITORING PERKEMBANGAN ANAK PADA PENDIDIKAN

INKLUSI DI SMP N 10 PEKALONGAN, dibawah bimbingan M. Faizal

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200 + xvii halaman / 148 gambar / 28 tabel / 3 lampiran / 47 pustaka (2019 - 2024)

ABSTRAK

Pemantauan anak berkebutuhan khusus (ABK) oleh guru pendamping bertujuan mengevaluasi perkembangan siswa di sekolah, agar hasilnya bisa disampaikan ke orang tua dan diterapkan pula di rumah. Namun, Saat Pullout, anak belajar calistung dan emosi dengan pengajar dari Lakondik. Hasil belajarnya dibawa pengajar dan tidak tercatat oleh guru pendamping, sehingga orang tua tidak tahu perkembangan anak dan tidak bisa menerapkan pembelajaran di rumah. Laporan perkembangan hanya tersedia saat pembagian rapor, bukan harian. Selain itu, pencatatan perkembangan ABK di SMP N 10 Pekalongan masih manual, membuat data kurang terstruktur. Metode pengembangan sistem yang digunakan adalah waterfall (Wachid 2020), yang mencakup tahapan requirement, design, implementation, verification dan maintenance. Sistem dirancang menggunakan bahasa pemrograman PHP dengan framework CodeIgniter 4 dan database MySQL. Diagram UML, seperti use case, activity, sequence, dan class, digunakan dalam proses perancangan yang meliputi pembuatan skenario sistem, ilustrasi tampilan, dan penyusunan kode sederhana hingga menjadi program yang berfungsi . Sistem diuji menggunakan metode pengujian white box, black box, dan user acceptance testing (UAT) untuk memastikan fungsionalitas dan keandalan. Hasil penelitian menunjukkan bahwa sistem yang dikembangkan mampu membantu pencatatan lebih rapi dan terorganisir dan data dapat disimpan lama dan mudah diakses untuk memantau perkembangan anak.

Kata Kunci : *Anak Berkebutuhan Khusus, Pemantauan Perkembangan, Sistem Informasi, Waterfall, CodeIgniter 4*

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CHILD DEVELOPMENT MONITORING SYSTEM IN INCLUSIVE EDUCATION AT SMP N 10 PEKALONGAN, under the supervision of M. Faizal Kurniawan, M.Kom and Era Yunianto, M.Kom

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ABSTRACT

Monitoring children with special needs (CWSN) by companion teachers aims to evaluate students' development at school so that the results can be communicated to parents and applied at home. However, during Pullout sessions, children learn literacy, numeracy, and emotional skills with instructors from Lakondik. The learning outcomes are brought by the instructor and are not recorded by the companion teacher, leaving parents unaware of their child's progress and unable to reinforce learning at home. Development reports are only available during report card distribution, not on a daily basis. Furthermore, at SMP N 10 Pekalongan, the documentation of CWSN progress is still done manually, resulting in poorly structured data. The system was developed using the waterfall model (Wachid 2020), which includes the stages of requirement, design, implementation, verification, and maintenance. The system was built using PHP with the CodeIgniter 4 framework and MySQL as the database. UML diagrams—such as use case, activity, sequence, and class diagrams—were employed to support system design, including scenario development, interface illustrations, and the construction of code from simple scripts into a functional program. The system was tested using white-box, black-box, and user acceptance testing (UAT) methods to ensure its functionality and reliability. The results show that the developed system helps create more organized and structured documentation, with data that can be stored long-term and accessed easily to monitor children's development.

Keywords : *Children with Special Needs, Development Monitoring, Information System, Waterfall, CodeIgniter 4*