SOFYAN HADI, 21.110.0010

SISTEM INFORMASI NILAI RAPOR MELALUI E-RAPOR DI TPQ MADIN KARANGANYAR TIRTO KABUPATEN PEKALONGAN, dibawah bimbingan Taryadi, M.Cs. dan Ari Putra Wibowo, M.Kom

123 + xv halaman / 100 gambar / 23 tabel / 2 lampiran / 12 pustaka (2015-2023)

ABSTRAK

Metode pengolahan data yang dilakukan TPQ MADIN AZZAHRO Pekalongan masih sering terganggu oleh penyampaian dan konfigurasi data, penambahan atau perubahan, serta proses pembuatan buku nilai. Oleh karena itu, dibangunnya sebuah sistem buku nilai menggunakan E-rapor untuk mengatasi permasalahan tersebut. Sistem yang dibangun merupakan sistem berbasis web yang menggunakan database MySQL dan framework CodeIgniter. Metode yang digunakan adalah model Waterfall yang dimulai dengan menentukan definisi kebutuhan, perancangan sistem dan perangkat lunak, implementasi dan pengujian unit, integrasi dan pengujian sistem, serta operasi dan pemeliharaan. Sistem dirancang menggunakan UML (Unified Modeling Language) melalui use case, class, aktivitas, dan diagram sequence, serta Lembar Kerja Tampilan (LKT). Pengujian sistem menggunakan metode Graphical User Interface (GUI) dan User Acceptance Test (UAT). Setelah pengujian, ditemukan bahwa sistem bekerja secara fungsional sesuai dengan desain dan harapan pengguna, memfasilitasi transfer serta konfigurasi data, dan memastikan bahwa proses penambahan atau perubahan data berjalan lancar. Melalui tahap dan metode yang telah digunakan, maka telah dihasilkan Sistem Informasi Nilai Rapor Melalui E-Rapor di TPQ Madin Karanganyar Tirto Kabupaten Pekalongan sesuai dengan rancangan dan harapan pengguna untuk mengolah data nilai rapor santri baik untuk bagian TU, wali kelas, mapun guru kelas. Sistem informasi ini masih memerlukan pengembangan lebih lanjut terutama dalam hal tampilan cetak rapor dalam bahasa arab, akses santri atau wali santri dalam monitoring nilai santri.

Kata Kunci : *Sistem Informasi, E-rapor, Waterfall*

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REPORT VALUE INFORMATION SYSTEM VIA E-REPORT AT TPQ MADIN AZZAHRO KARANGANYAR TIRTO PEKALONGAN DISTRICT,

ABSTRACT

The data processing method used by TPQ MADIN AZZAHRO Pekalongan is still often disrupted by data delivery and configuration, addition or changes, and the process of creating grade books. Therefore, a grade book system was built using E-report to overcome these problems. The system built is a web-based system that uses a MySQL database and the CodeIgniter framework. The method used is the Waterfall model which begins with determining the definition of needs, system and software design, implementation and unit testing, system integration and testing, and operation and maintenance. The system is designed using UML (Unified Modeling Language) through use cases, classes, activities, and sequence diagrams, as well as Display Worksheets (LKT). System testing uses the Graphical User Interface (GUI) and User Acceptance Test (UAT) methods. After testing, it was found that the system works functionally according to the design and user expectations, facilitates data transfer and configuration, and ensures that the process of adding or changing data runs smoothly. Through the stages and methods that have been used, a Report Card Information System has been produced through E-Rapor at TPQ Madin Karanganyar Tirto, Pekalongan Regency in accordance with the design and expectations of users to process student report card data for both the TU section, homeroom teachers, and class teachers. This information system still requires further development, especially in terms of the appearance of printed report cards in Arabic, access for students or guardians of students in monitoring student scores.

Keywords: *Information System, E-report, Waterfall*