

ABSTRAK

Afredo Riyandra Rizqiansyah. *Sistem Informasi Pengelolaan Data Digital Siswa Berbasis Web di SMP Muhammadiyah Boarding School (MBS).* Skripsi. Pacitan: STKIP PGRI Pacitan, 2022.

Penelitian ini bertujuan untuk mengembangkan perangkat lunak sistem pendataan siswa di SMP Muhammadiyah Boarding School (MBS). Data siswa yang dikelola dalam sistem adalah data pribadi siswa. Penelitian ini fokus pada pengembangan sistem dan pengujian kualitas perangkat lunak pada aspek *functionality*, dan *usability*. Perangkat lunak hasil penelitian ini diharapkan dapat mempermudah pengelolaan data siswa di SMP Muhammadiyah Boarding School (MBS).

Penelitian ini merupakan penelitian pengembangan perangkat lunak menggunakan model *Research and Development (R&D)*. Pengujian sistem dilakukan uji coba awal dan uji coba lapangan. Tahap uji coba awal dilakukan pengujian pada aspek *functionality*. Proses uji coba lapangan dilakukan pengujian tingkat kemudahan penggunaan (*usability*) oleh pengguna yakni TU dan Guru di SMP Muhammadiyah Boarding School (MBS).

Berdasarkan penelitian pengembangan perangkat lunak yang telah dilakukan menunjukkan hasil : 1) Sistem pendataan siswa SMP Muhammadiyah Boarding School (MBS) dikembangkan dengan menggunakan metode *Research and Development (R&D)*. Tahap pengembangan terdiri dari: penelitian dan perencanaan, pengembangan produk awal, uji coba awal, perbaikan produk awal, uji coba lapangan, perbaikan produk operasional, dan produk akhir. 2) Tingkat kualitas perangkat lunak sistem pendataan siswa SMP Muhammadiyah Boarding School (MBS) telah memenuhi standar kelayakan perangkat lunak dengan pengujian aspek *functionality* dan *usability*.

Kata kunci: Sistem informasi, pendataan siswa, *functionality*, *usability*.

ABSTRACT

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This study aims to develop software for student data collection systems at SMP Muhammadiyah Boarding School (MBS). The student data managed in the system is the personal data of the student. This research focuses on system development and software quality testing on aspects of functionality and usability. The software from this study is expected to facilitate the management of student data at SMP Muhammadiyah Boarding School (MBS).

This research is software development research using the Research and Development (R&D) model. Testing of the system was carried out in preliminary trials and field trials. The initial trial phase was tested on the functionality aspect. The field trial process was carried out by testing the level of usability by users, namely TU and teachers at SMP Muhammadiyah Boarding School (MBS).

Based on software development research that has been carried out, it shows the results of 1) The data collection system for students of SMP Muhammadiyah Boarding School (MBS) was developed using the Research and Development (R&D) method. The development stage consists of research and planning, initial product development, initial trials, initial product repairs, field trials, operational product repairs, and final products. 2) The quality level of the software of the SMP Muhammadiyah boarding school (MBS) student data collection system has met the software feasibility standards by testing aspects of functionality and usability.

Keywords: *Information system, student data collection, functionality, usability.*