

ABSTRAK

Proses pendaftaran peserta didik dan pembayaran SPP di PKBM Tunas Banjarsari masih dilakukan melalui pencatatan pada beberapa media administrasi sehingga meningkatkan risiko kesalahan data dan menyulitkan pengelolaan data administrasi pendaftaran dan pembayaran. Penelitian ini bertujuan untuk merancang dan membangun Sistem Informasi Pendaftaran Siswa dan Pembayaran SPP berbasis web yang mendukung pengelolaan data administrasi pendaftaran dan pembayaran dalam satu basis data sehingga mengurangi risiko kesalahan data akibat pencatatan pada beberapa media administrasi. Penelitian ini menggunakan metode *prototyping* yang memungkinkan pengembangan sistem dilakukan secara bertahap melalui komunikasi dengan pengguna, penyusunan rancangan awal, pembuatan *prototype*, serta evaluasi berdasarkan umpan balik pengguna.

Hasil penelitian menghasilkan Sistem Informasi Pendaftaran Siswa dan Pembayaran SPP berbasis web yang mendukung proses pendaftaran peserta didik, pengelolaan data siswa, pembentukan tagihan, pembayaran, dan pelaporan dalam satu sistem. Pengujian menggunakan metode *Black Box Testing* terhadap 96 skenario pengujian yang melibatkan admin, bendahara, dan siswa menunjukkan seluruh fungsi sistem berjalan sesuai dengan kebutuhan fungsional dengan tingkat keberhasilan sebesar 100%. Sistem yang dibangun mendukung pengelolaan data administrasi pendaftaran dan pembayaran dalam satu basis data sehingga data dapat digunakan pada proses administrasi berikutnya tanpa pencatatan kembali pada beberapa media administrasi.

Kata kunci: Sistem Informasi, Pendaftaran Peserta Didik, Pembayaran SPP, Prototyping, Black Box Testing

ABSTRACT

The student registration and tuition fee (SPP) payment processes at PKBM Tunas Banjarsari are still carried out by recording data across multiple administrative records, increasing the risk of data errors and making the management of registration and payment administrative data more difficult. This study aims to design and develop a web-based Student Registration and Tuition Fee Payment Information System that supports the management of registration and payment administrative data within a single database, thereby reducing the risk of data errors caused by recording data in multiple administrative records. The system was developed using the prototyping method, which enables iterative system development through user communication, preliminary design, prototype development, and evaluation based on user feedback.

The results of this study produced a web-based Student Registration and Tuition Fee Payment Information System that supports student registration, student data management, billing generation, tuition fee payment, and reporting within a single system. Functional testing was conducted using the Black Box Testing method with 96 test scenarios involving administrators, treasurers, and students. The testing results showed that all system functions operated according to the functional requirements, achieving a 100% success rate. The developed system supports the management of registration and payment administrative data within a single database, enabling the data to be reused in subsequent administrative processes without requiring repeated recording across multiple administrative records.

Keywords: Information System, Student Registration, Tuition Fee Payment, Prototyping, Black Box Testing