

INTISARI

Penelitian ini bertujuan untuk merancang dan membangun Sistem Administrasi Perpustakaan Berbasis Web dengan Fitur Rekomendasi Buku Populer di SD Negeri Mojolegi. Penelitian ini dilatarbelakangi oleh proses administrasi perpustakaan yang masih dilakukan secara manual, sehingga pencatatan, pencarian data, pemantauan peminjaman dan stok buku, serta penyusunan laporan membutuhkan waktu lebih lama. Pengembangan sistem dilakukan menggunakan metode RAD (Rapid Application Development), sedangkan fitur rekomendasi buku populer menerapkan metode SAW (Simple Additive Weighting) dengan tiga kriteria, yaitu frekuensi peminjaman, tahun terbit, dan ketersediaan stok. Pengumpulan data dilakukan melalui observasi, wawancara, studi pustaka, dan kuesioner. Sistem yang dihasilkan menyediakan fitur pengelolaan data buku, kategori, anggota, peminjaman, pengembalian, denda, laporan, serta rekomendasi buku populer. Hasil pengujian menggunakan Black Box Testing menunjukkan bahwa fungsi-fungsi sistem dapat berjalan sesuai kebutuhan setelah dilakukan perbaikan pada pengujian awal. Sementara itu, pengujian System Usability Scale (SUS) terhadap 10 responden memperoleh nilai rata-rata 77,75 dengan Grade B dan Percentile Rank 70%–90%, yang menunjukkan bahwa sistem memiliki tingkat kemudahan penggunaan yang baik. Dengan demikian, sistem yang dikembangkan dapat membantu pengelolaan administrasi perpustakaan secara lebih terstruktur serta mendukung pemberian rekomendasi buku populer berdasarkan kriteria yang telah ditentukan.

Kata kunci: Sistem Administrasi Perpustakaan, *Website*, SAW, RAD, SUS.

ABSTRACT

This study aims to design and develop a Web-Based Library Administration System with a Popular Book Recommendation Feature at SD Negeri Mojolegi. This research was motivated by the library administration process, which was still carried out manually, causing book and member data recording, information retrieval, borrowing and stock monitoring, and report preparation to require more time. The system was developed using the RAD (Rapid Application Development) method, while the popular book recommendation feature applies the SAW (Simple Additive Weighting) method using three criteria: borrowing frequency, publication year, and book stock availability. Data were collected through observation, interviews, literature study, and questionnaires. The developed system provides features for managing book data, categories, members, borrowing, returns, fines, reports, and popular book recommendations. The results of Black Box Testing showed that the system functions operated according to the requirements after improvements were made to the initial test results. Meanwhile, usability testing using the System Usability Scale (SUS) involving 10 respondents obtained an average score of 77.75, with Grade B and a Percentile Rank of 70%–90%, indicating that the system has a good level of usability. Therefore, the developed system can support more structured library administration and provide popular book recommendations based on the specified criteria.

Keyword: Library Administration System, Website, SAW, RAD, SUS