

ABSTRAK

Perpustakaan berperan penting sebagai pusat informasi dan sumber pengetahuan bagi masyarakat. Namun, dalam pengelolaannya, terutama pada proses peminjaman buku, sering muncul permasalahan terkait keterbatasan jumlah eksemplar dan tingginya permintaan dari pemustaka. Kondisi ini menimbulkan tantangan dalam menentukan siapa yang lebih berhak diprioritaskan dalam peminjaman, terutama di instansi seperti Dinas Perpustakaan Provinsi Sumatera Selatan. Saat ini, sistem peminjaman masih dilakukan secara manual dan belum mempertimbangkan faktor-faktor seperti urgensi kebutuhan, frekuensi peminjaman, atau relevansi terhadap bidang studi. Untuk menjawab permasalahan tersebut, penelitian ini mengembangkan Sistem Pendukung Keputusan (SPK) berbasis website dengan menggunakan metode *Simple Additive Weighting (SAW)*. Metode SAW dipilih karena mampu melakukan perhitungan nilai preferensi berdasarkan bobot dari beberapa kriteria, seperti status peminjam, tingkat urgensi, frekuensi peminjaman, ketersediaan buku, dan lama waktu peminjaman. Sistem ini diharapkan dapat membantu petugas perpustakaan dalam menentukan prioritas peminjaman secara objektif, adil, dan efisien, sekaligus meningkatkan kualitas layanan serta kepuasan pengguna. Hasil penelitian menunjukkan bahwa sistem yang dibangun mampu menjalankan proses pengambilan keputusan dengan akurat dan memberikan solusi yang relevan terhadap permasalahan distribusi buku di perpustakaan.

Kata Kunci: Sistem Pendukung Keputusan, Peminjaman Buku, *Simple Additive Weighting (SAW)*, *Website*, Perpustakaan.

ABSTRACT

Libraries play a crucial role as information centers and sources of knowledge for the public. However, in their management, particularly in the book lending process, problems often arise related to limited copies and high demand from users. This situation presents challenges in determining who deserves priority in borrowing, especially in institutions such as the South Sumatra Provincial Library Service. Currently, the borrowing system is still manual and does not consider factors such as urgency of need, frequency of borrowing, or relevance to the field of study. To address these issues, this study developed a website-based Decision Support System (DSS) using the Simple Additive Weighting (SAW) method. The SAW method was chosen because it can calculate preference values based on the weighting of several criteria, such as borrower status, urgency level, borrowing frequency, book availability, and loan duration. This system is expected to assist library staff in determining borrowing priorities objectively, fairly, and efficiently, while simultaneously improving service quality and user satisfaction. The results of the study indicate that the developed system is capable of carrying out the decision-making process accurately and providing relevant solutions to book distribution problems in libraries.

Keywords: Decision Support System, Book Lending, Simple Additive Weighting (SAW), Website, Library.