

ABSTRAK

Penentuan penanggung jawab kegiatan merupakan salah satu aspek penting dalam pengelolaan sumber daya manusia di lingkungan instansi pemerintah. Pada Dinas Pemberdayaan Perempuan dan Perlindungan Anak Provinsi Sumatera Selatan, proses penentuan penanggung jawab kegiatan masih dilakukan secara manual berdasarkan pertimbangan pimpinan, sehingga berpotensi menimbulkan subjektivitas dan kurang optimal dalam menghasilkan keputusan yang objektif. Oleh karena itu, diperlukan suatu Sistem Pendukung Keputusan (SPK) yang dapat membantu proses pengambilan keputusan secara sistematis dan berdasarkan kriteria yang telah ditetapkan. Penelitian ini bertujuan untuk merancang dan membangun Sistem Pendukung Keputusan berbasis web menggunakan metode *Simple Additive Weighting* (SAW) dalam menentukan penanggung jawab kegiatan. Metode pengembangan sistem yang digunakan adalah *Waterfall* yang meliputi tahapan analisis kebutuhan, perancangan sistem, implementasi, pengujian, penerapan, dan pemeliharaan. Metode SAW diterapkan dengan menggunakan empat kriteria penilaian, yaitu kompetensi, pengalaman kerja, beban kerja, dan riwayat penugasan. Proses perhitungan dilakukan melalui tahapan normalisasi, pembobotan, dan perhitungan nilai preferensi untuk menghasilkan peringkat alternatif pegawai terbaik. Hasil penelitian menunjukkan bahwa sistem berhasil dibangun menggunakan *framework* Laravel dan basis data MySQL. Sistem mampu mengelola data pegawai, data kriteria, data kegiatan, serta melakukan proses perhitungan dan perbandingan menggunakan metode SAW secara otomatis. Berdasarkan hasil pengujian *Black Box Testing*, seluruh fungsi utama sistem berjalan sesuai dengan kebutuhan pengguna. Sistem yang dihasilkan mampu memberikan rekomendasi penanggung jawab kegiatan secara lebih objektif, efektif, dan terstruktur sehingga dapat membantu pimpinan dalam proses pengambilan keputusan.

Kata Kunci: Sistem Pendukung Keputusan, *Simple Additive Weighting* (SAW), Penanggung Jawab Kegiatan, Dinas Pemberdayaan Perempuan dan Perlindungan Anak Provinsi Sumatera Selatan.

ABSTRACT

Determining the person in charge of activities is an important aspect of human resource management within government institutions. At the Office of Women's Empowerment and Child Protection of South Sumatra Province, the process of selecting the person in charge of activities is still carried out manually based on managerial considerations, which may lead to subjectivity and less optimal decision-making. Therefore, a Decision Support System (DSS) is needed to assist the decision-making process systematically based on predetermined criteria.

This study aims to design and develop a web-based Decision Support System using the Simple Additive Weighting (SAW) method to determine the most suitable person in charge of activities. The system was developed using the Waterfall model, which consists of requirement analysis, system design, implementation, testing, deployment, and maintenance stages. The SAW method was applied using four assessment criteria: competence, work experience, workload, and assignment history. The calculation process includes normalization, weighting, and preference value computation to generate employee rankings. The results show that the system was successfully developed using the Laravel framework and MySQL database. The system is capable of managing employee data, criteria data, Activity data, and performing automatic calculations and rankings using the SAW method. Based on Black Box Testing, all main system functions operated according to user requirements. The developed system is able to provide recommendations for Activity coordinators in a more objective, effective, and structured manner, thereby assisting management in the decision-making process.

Keywords: Decision Support System, Simple Additive Weighting (SAW), Person in Charge of Activities, Office of Women's Empowerment and Child Protection of South Sumatra Province.