

ABSTRAK

Pemanfaatan teknologi informasi dalam pengambilan keputusan sangat diperlukan, terutama dalam proses seleksi penerima bantuan sosial agar lebih tepat sasaran, efisien, dan transparan. Program Keluarga Harapan (PKH) merupakan bantuan tunai bersyarat dari pemerintah yang diperuntukkan bagi keluarga prasejahtera. Namun, proses penentuan penerima PKH sering kali dilakukan secara manual sehingga menimbulkan potensi kesalahan dan keterlambatan. Penelitian ini bertujuan untuk merancang dan mengembangkan sistem pendukung keputusan berbasis web menggunakan metode *Simple Additive Weighting* (SAW) guna membantu Dinas Sosial Kabupaten Empat Lawang dalam menentukan penerima PKH secara objektif. Sistem ini dibangun menggunakan bahasa pemrograman *PHP* dan basis data *MySQL*, serta diuji menggunakan metode Black Box. Dalam sistem ini, input yang digunakan meliputi data calon penerima bantuan seperti penghasilan, jumlah tanggungan, kondisi rumah, status pekerjaan, dan jumlah komponen PKH. Proses dalam sistem meliputi pengumpulan data, pemberian bobot kriteria, normalisasi nilai, dan perhitungan menggunakan metode SAW untuk mendapatkan nilai akhir. Dari proses tersebut, sistem menghasilkan output berupa daftar peringkat calon penerima bantuan yang ditampilkan dalam bentuk halaman perangkingan, dashboard admin, serta laporan data penerima bantuan. Dengan adanya sistem ini, diharapkan proses seleksi penerima bantuan dapat dilakukan secara lebih cepat, objektif, dan sistematis, serta membantu meminimalkan kesalahan dalam pengambilan keputusan oleh pihak Dinas Sosial.

Kata Kunci: Sistem Pendukung Keputusan, *Simple Additive Weighting*, PKH, Bantuan Sosial, *PHP*, *MySQL*, Website.

ABSTRACT

The utilization of information technology in decision making is highly necessary, especially in the selection process of social assistance recipients to make it more targeted, efficient, and transparent. Program Keluarga Harapan (PKH) is a conditional cash assistance from the government intended for underprivileged families. However, the process of determining PKH recipients is often done manually, which leads to potential errors and delays. This study aims to design and develop a web-based decision support system using the Simple Additive Weighting (SAW) method to assist the Social Service of Empat Lawang Regency in objectively determining PKH recipients. This system is built using PHP programming language and MySQL database, and is tested using the Black Box method. In this system, the inputs include data from prospective recipients such as income, number of dependents, housing condition, employment status, and the number of PKH components. The process in the system includes data collection, criterion weighting, normalization of scores, and calculations using the SAW method to obtain final values. From this process, the system produces an output in the form of a ranking list of prospective aid recipients displayed in the form of a ranking page, admin dashboard, and aid recipient data reports. With this system, it is hoped that the selection process for aid recipients can be carried out more quickly, objectively, and systematically, while also helping to minimize errors in decision-making by the Social Service.

Keywords: *Decision Support System, Simple Additive Weighting, PKH, Social Aid, PHP, MySQL, Website.*