

INTISARI

Penelitian ini bertujuan merancang dan membangun sistem informasi berbasis *website* yang dapat membantu proses penentuan penerima bantuan sosial di Desa Kebonharjo Klaten menggunakan metode *Simple Additive Weighting* (SAW). Kriteria yang digunakan terdiri dari penghasilan dengan bobot 25%, tanggungan hidup 20%, kondisi rumah 25%, dan Usia 30%. Metode pengembangan sistem yang digunakan adalah *Waterfall*, sedangkan sistem dibangun menggunakan PHP dengan *framework* Laravel dan basis data MySQL. Sistem yang dihasilkan memiliki fitur pengelolaan data calon penerima, pengelolaan kriteria, penilaian, perhitungan SAW, perangkingan, pencetakan laporan, dan publikasi hasil seleksi. Hasil pengujian *black box* terhadap 12 skenario menunjukkan seluruh fungsi sistem berjalan valid. *Pengujian System Usability Scale* (SUS) memperoleh skor 77,5 dari admin yang termasuk kategori Baik, sedangkan pengujian terhadap 30 warga memperoleh skor rata-rata 90,5 yang termasuk kategori *Excellent*. Berdasarkan hasil tersebut, sistem dapat membantu perangkat Desa Kebonharjo dalam mengelola data dan menentukan prioritas penerima bantuan sosial secara lebih terstruktur serta dapat digunakan dengan baik oleh pengguna.

Kata kunci: sistem informasi, bantuan sosial, SAW, sistem pendukung keputusan, *website*, *Waterfall*

ABSTRACT

This study aims to design and develop a web-based information system to assist in determining social assistance recipients in Kebonharjo Village, Klaten, using the Simple Additive Weighting (SAW) method. The criteria used consist of income (25% weight), number of dependents (20%), housing condition (25%), and age (30%). The system was developed using the Waterfall methodology and built with PHP using the Laravel framework and a MySQL database. The resulting system includes features for managing candidate data, managing criteria, assessment, SAW calculation, ranking, report printing, and publication of selection results. Black box testing across 12 scenarios showed that all system functions operated validly. System Usability Scale (SUS) testing yielded a score of 77.5 from the administrators, which falls into the Good category, while testing with 30 residents yielded an average score of 90.5, which falls into the Excellent category. Based on these results, the system can help Kebonharjo Village officials manage data and determine priority recipients of social assistance in a more structured manner, and it can be used effectively by its users.

Keyword: information system, social assistance, SAW, decision support system, website, Waterfall