

INTISARI

Penelitian ini bertujuan merancang dan membangun sistem seleksi penerima bantuan Program Indonesia Pintar (PIP) berbasis web di SMP Negeri 1 Kartasura. Sistem dikembangkan menggunakan metode *Rapid Application Development* (RAD), sedangkan proses pemeringkatan calon penerima menerapkan metode *Simple Additive Weighting* (SAW). Penilaian dilakukan berdasarkan empat kriteria, yaitu kondisi rumah, penghasilan orang tua, jumlah tanggungan, serta status yatim atau piatu. Penerapan metode SAW terhadap 32 siswa menunjukkan bahwa alternatif A21 dan A22 memperoleh nilai preferensi tertinggi sebesar 0,840000 dengan rekomendasi Sangat Layak. Pengujian fungsional menggunakan *Black-box testing* menunjukkan bahwa seluruh skenario fungsi berhasil dijalankan pada tahap pengujian ketiga. Sementara itu, *User Acceptance Testing* (UAT) yang melibatkan 35 responden memperoleh nilai 86,90% dan termasuk kategori Sangat Tinggi. Berdasarkan hasil tersebut, sistem dinilai layak digunakan sebagai alat bantu bagi pihak sekolah dalam mengelola data, melakukan penilaian, menyusun urutan prioritas calon penerima, dan mendokumentasikan hasil seleksi PIP secara lebih terstruktur.

Kata kunci: Program Indonesia Pintar, Sistem Pendukung Keputusan, *Simple Additive Weighting*, *Rapid Application Development*, Sistem Berbasis Web

ABSTRACT

This study aims to design and develop a web-based selection system for recipients of the Program Indonesia Pintar (PIP) assistance at SMP Negeri 1 Kartasura. The system was developed using the Rapid Application Development(RAD) method, while the Simple Additive Weighting (SAW) method was applied to rank prospective recipients. The assessment was based on four criteria: housing conditions, parents' income, number of dependents, and orphan status. The application of the SAW method to 32 students showed that alternatives A21 and A22 achieved the highest preference score of 0.840000 and were classified as Highly Eligible. Functional testing using Black-box testing showed that all functional scenarios were successfully completed in the third testing stage. In addition, User Acceptance Testing (UAT) involving 35 respondents produced a score of 86.90%, which was classified as Very High. Based on these results, the system is considered feasible as a decision-support tool for managing student data, conducting assessments, determining the priority order of prospective recipients, and documenting the PIP selection results in a more structured manner.

Keyword: Program Indonesia Pintar, Decision Support System, Simple Additive Weighting, Rapid Application Development, Web-Based System.