IMPLEMENTASI METODE *SIMPLE ADDITIVE WEIGHTING* (SAW) DALAM SISTEM PENDUKUNG KEPUTUSAN PENENTUAN PRIORITAS PEMBINAAN SISWA DI SMP NEGERI 1 BANJAREJO KABUPATEN BLORA

ABSTRAK

Latar Belakang : Perekapan dan pengolahan data siswa yang bermasalah di SMP Negeri 1 Banjarejo masih dilakukan secara konvensional, yaitu dengan mencatat nilai akademik, kehadiran, kepatuhan, jiwa sosial, dan prestasi sebagai kriteria penentuan pembinaan siswa di buku catatan. Hal tersebut memungkinkan data bisa hilang. Selain itu pihak sekolah juga sering mengalami kesulitan dalam penentuan siswa yang mengalami masalah, dikarenakan banyaknya pelanggaran yang dilakukan. Hal ini tentu akan memperlambat tindakan pembinaan yang harusnya segera dilakukan kepada siswa yang bermasalah agar siswa termotivasi untuk meningkatkan minat belajar di kelas dan mengalami perubahan.

Tujuan : Dibangunnya Sistem Pendukung Keputusan yang dikembangkan berbasis web akan memudahkan penentuan prioritas pembinaan siswa dan merekomendasikan alternatif yang terpilih.

Metode : Sistem Pendukung Keputusan ini menggunakan Metode *Simple Additive Weighting* merupakan perhitungan penjumlahan terbobot yang memuat beberapa kriteria dan Pengembangan perangkat lunak yang digunakan berupa Metode Waterfall.

Hasil : Implementasi Metode *Simple Additive Weighting* (SAW) Dalam Sistem Pendukung Keputusan Penentuan Prioritas Pembinaan Siswa, yang dapat membantu menentukan prioritas pembinaan siswa dan Hasil dari pengujian menggunakan *black-box* menunjukkan bahwa program ini dapat bekerja sesuai dengan fungsi yang ada. Berdasarkan hasil pengujian performance didapatkan nilai akurasi sebesar 99,32% untuk metode *Simple Additive Weighting* (SAW). Dan pengujian *usability* mendapat hasil 90,4% yang dikategorikan "Setuju".

Simpulan: Sistem Pendukung Keputusan Penentuan Prioritas Pembinaan Siswa berhasil di rancang dan direalisasikan.

Kata Kunci : SPK, SMP N 1 Banjarejo, SAW *(Simple Additive Weighting)*
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IMPLEMENTATION OF THE SIMPLE ADDITIVE WEIGHTING (SAW) METHOD IN A DECISION SUPPORT SYSTEM FOR THE DETERMINATION OF PRIORITY STUDENTS AT SMP NEGERI 1 BANJAREJO BLORA REGENCY

ABSTRACT

Background: Recording and processing of problematic student data at SMP Negeri 1 Banjarejo is still done conventionally, namely by recording academic grades, attendance, compliance, social spirit, and achievement as criteria for determining student coaching in notebooks. This allows data to be lost. In addition, the school also often has difficulty in determining students who have problems, due to the many violations committed. This of course will slow down the coaching action that should be done immediately to students with problems so that students are motivated to increase interest in learning in class and experience changes.

Objective: The decision support system which is developed web-based will facilitate the determination of student development priorities and recommend the chosen alternative.

Method: This Decision Support System uses the Simple Additive Weighting method, which is a weighted sum calculation that contains several criteria and the software development used is the Waterfall Method.

Results: Implementation of the Simple Additive Weighting (SAW) Method in the Decision Support System for Prioritizing Student Coaching, which can help determine the priority of student development and the results of testing using black-boxes show that this program can work in accordance with existing functions. Based on the results of performance testing, an accuracy value of 99.32% was obtained for the Simple Additive Weighting (SAW) method. And usability testing got 90.4% results which were categorized as "Agree".

Conclusion: The Decision Support System for Determining the Priority of Student Guidance has been successfully designed and realized.