

MOHAMMAD DAVID AFRIYANA, 18.230.0030

SISTEM PENDUKUNG KEPUTUSAN SELEKSI CALON PENERIMA BEASISWA DI SD KERTOHARJO 2 MENGGUNAKAN METODE SIMPLE ADDITIVE WEIGHTING (SAW), dibawah bimbingan Eko Budi Susanto, M.Kom.

ABSTRAK

SD Kertoharjo 2 adalah penyelenggara pendidikan akademik tingkat dasar yang beralamat di Kota Pekalongan, Jawa Tengah. Sistem ini dirancang untuk mengatasi permasalahan lamanya proses seleksi dan kurang objektifnya penilaian yang selama ini dilakukan secara manual. Maka diusulkan sistem pendukung keputusan menggunakan metode Simple Addictive Weighting (SAW). Sistem ini menggunakan metode pengembangan Waterfall. Teknik pengujian menggunakan pengujian white-box, black-box dan UAT yang menghasilkan fungsionalitas. Berdasarkan pengujian yang telah dilakukan maka didapatkan hasil dari pengujian white-box yaitu source code sudah sesuai dengan alur logika sistem. Hasil dari pengujian black-box yaitu fungsi masukan, proses dan keluaran sudah sesuai dengan kebutuhan fungsional sistem. Hasil dari pengujian UAT yaitu bahwa sistem layak digunakan dan dapat mengatasi permasalahan yang ada.

Kata Kunci : Sistem Pendukung Keputusan, Beasiswa, Simple Addictive Weighting.

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DECISION SUPPORT SYSTEM FOR SCHOLARSHIP RECIPIENT SELECTION AT SD
KERTO HARJO 2 USING THE SIMPLE ADDITIVE WEIGHTING (SAW) METHOD,
supervised by Eko Budi Susanto, M.Kom.

ABSTRACT

SD Kertoharjo 2 is an academic primary education provider located in Pekalongan City, Central Java. This system is designed to address issues related to the lengthy selection process and the lack of objectivity in assessments, which were previously conducted manually. Therefore, a decision support system is proposed using the Simple Additive Weighting (SAW) method. The system is developed using the Waterfall model. Testing techniques include white-box testing, black-box testing, and User Acceptance Testing (UAT), all of which demonstrate system functionality.

Based on the testing conducted, the results of the white-box testing indicate that the source code aligns with the system's logical flow. The black-box testing results show that the input, process, and output functions meet the system's functional requirements. The UAT results confirm that the system is feasible for use and effectively addresses the existing problems.

Keywords: Decision Support System, Scholarship, Simple Addictive Weighting.