ARI NUR HIDAYAT, 18.230.0096

SISTEM PENDUKUNG KEPUTUSAN PENERIMAAN DANA BANTUAN SISWA MISKIN DI SMK NURUL UMMAH PANINGGARAN MENGGUNAKAN METODE SAW, dibawah bimbingan Eko Budi Susanto, S.Kom., M.Kom. dan Ari Putra Wibowo, S.Kom., M.Kom.

119 + xiv halaman / 50 gambar / 32 tabel / 5 lampiran / 12 pustaka (2012-2021)

ABSTRAK

Permasalahan dalam penentuan penerima dana bantuan di SMK Nurul Ummah Paninggaran dapat diselesaikan dengan menggunakan SPK melalui metode Simple Additive Weighting (SAW). SPK dibangun menggunakan metode Waterfall melalui tahap Requirements Definition, System and Software Design, Implementation and Unit Testing, Integration and System Testing, dan Operation and Maintenance. Sistem dirancang dengan alat bantu Unified Modeling Language (UML) dan Lembar Kerja Tampilan (LKT). Sistem yang dibangun dengan menggunakan framework CodeIgniter 3 dan database MySQL, sudah berhasil lulus uji melalui 3 (tiga) metode pengujian yaitu White Box, Black Box, dan User Acceptance Test (UAT). Hasil pengujian sistem menunjukkan bahwa sistem yang dibangun sudah dapat berjalan sesuai dengan rancangan yang dibuat baik secara fungsional tampilan maupun komponen didalamnya, serta membantu pihak SMK Nurul Ummah Paninggaran dalam proses penentuan penerima data bantuan siswa miskin dengan lebih mudah dan cepat. Namun sebaiknya dalam proses penentuan bobot kriteria analisa menggunakan penyetaraan persentase bobot sehingga pengguna awam tidak perlu menghitung ulang jumlah bobot kriteria yang harus 100%.

Kata Kunci : *Sistem Pendukung Keputusan, Dana Bantuan, Siswa, SAW*

ARI NUR HIDAYAT, 18.230.0096

A DECISION SUPPORT SYSTEM FOR RECEIVING AID FUNDS FOR POOR STUDENTS AT SMK NURUL UMMAH PANINGGARAN USING THE SAW METHOD, under guidance of Eko Budi Susanto, S.Kom., M.Kom. dan Ari Putra Wibowo, S.Kom., M.Kom.

119 + xiv pages / 50 images / 32 tables / 5 attachments / 12 libraries (2012-2021)

ABSTRACT

Problems in determining grant recipients at Nurul Ummah Paninggaran Vocational School can be solved by using the DSS through the Simple Additive Weighting (SAW) method. DSS is built using the Waterfall method through the Requirements Definition, System and Software Design, Implementation and Unit Testing, Integration and System Testing, and Operation and Maintenance stages. The system is designed with the tools of the Unified Modeling Language (UML) and Display Worksheets (DW). The system built using the CodeIgniter 3 framework and MySQL database has successfully passed the test through three testing methods namely White Box, Black Box, and User Acceptance Test (UAT). The results of system testing show that the system built can run according to the design made both functionally in appearance and in the components inside, as well as helping the Nurul Ummah Paninggaran Vocational School in the process of determining recipients of poor student assistance data more easily and quickly. However, in the process of determining the weight of the analysis criteria, it is better to use the equalization of the percentage of weights so that ordinary users do not need to recalculate the total weight of the criteria which must be 100%.

Key Word : *Decision Support System, Aid Fund, Students, SAW*