IMPLEMENTATION OF SIMPLE ADDITIVE WEIGHTING METHOD FOR RECOMMENDATION OF KELUARGA HARAPAN PROGRAM BENEFICIARY

(Case Study: Kelurahan Panjatan, Karanganyar, Kebumen)

BIMO ADE SASONGKO
Department of Informatics, Faculty of Science & Technology
University of Technology Yogyakarta
North Ringroad St., Jombor Sleman Yogyakarta
E-mail: bimoade@gmail.com

ABSTRACT

PKH assistance is a social protection program that assists households that meet PKH criteria. In providing PKH assistance to Panjatan Village, it is still not optimal because the recipient selection is still selected manually, and there is no calculation process in the process. There has been no calculation process causing residents to protest because they should have received assistance, but they did not receive it.

The amount of data that is processed requires a decision support system for PKH beneficiaries. In this study, the method used is the Simple Additive Weighting (SAW) method. This method was chosen because it could choose the best alternative based on the criteria from some alternatives. The steps to perform calculations in this study are normalization, each alternative's preference value, and ranking.

The result of this research is a decision support system that can provide recommendations for PKH beneficiaries. The criteria used in this study were the number of elementary school children, the number of junior high school children, the number of high school children, pregnant women, the number of early age children, the elderly, disabilities and income. According to the criteria, the system built can help provide solutions for Panjatan Village in selecting recipients of PKH assistance.

Keywords: PKH, Decision Support System, SAW