

ABSTRACT

THE SELECTION SYSTEM FOR PROSPECTIVE SOCIAL ASSISTANCE RECIPIENTS FOR NURSING HOMES USING THE SIMPLE ADDITIVE WEIGHTING (SAW) METHOD

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Charity organizations play a vital role in providing essential support and assistance to Nursing Homes. To ensure an effective selection process for potential recipients of social assistance within the nursing homes sector, charity organizations strongly benefit from the utilization of a Decision Support System (DSS) technology to provide quick, accurate, reliable recommendations of nursing homes candidates. The problem addressed in this study is the development of a DSS designed to provide recommendations of nursing home beneficiaries to assist charity organizations in identifying eligible recipients. The system is built using the Simple Additive Weighting (SAW) method and implemented using the Python programming language to create a Graphical User Interface (GUI)-based system. By conducting application testing, a prioritized list of recommendations for Nursing Homes is generated based on their respective rankings, based on the applied criteria weights. As a result, the system developed in this research is expected to streamline the decision-making process for charity organizations to reach informed decision that are well-targeted without requiring significant amount of time and resources.

Keywords: *decision support system, nursing homes, simple additive weighting*

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