IMPLEMENTATION OF THE SIMPLE ADDITIVE WEIGHTING METHOD FOR NEW STUDENT SELECTION RECOMMENDATIONS (Case Study: MAN 1 Sleman)

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ABSTRACT

MAN 1 Sleman is a senior high school with Islamic characteristics which annually conducts new student admission activities. The new students' admission is an annual routine activity carried out every new school year at each school. In the new student admission activity, there is a selection process that aims to screen new prospective students according to the criteria set by the school. In this selection process, MAN 1 Sleman has five criteria to select prospective new students: interviews, junior high school report cards, SD SKHUN scores, tahfidz scores and academic championship achievement scores. The new student selection process is expected to get new student candidates who deserve to be accepted according to predetermined criteria. When MAN 1 Sleman cannot determine prospective students according to predetermined criteria, it will be detrimental to the school. Based on these problems, a decision support system was created using the Simple Additive Weighting (SAW) method, which can help provide recommendations for newly accepted students. The decision support system uses the SAW method chosen because the SAW's ability to carry out costs is more precise than before. After all, it is based on predetermined value criteria and preference weights. The test data used were 50 prospective student data with five predetermined assessment criteria. The test results obtained an accuracy rate of 98.6% by comparing manual selection and system selection results.

Keywords: New Student Admissions, Decision Support Systems, SAW