ABSTRACT

DETERMINING THE ELIGIBILITY OF RECIPIENTS OF THE FAMILY HOPE PROGRAM IN MESUJI DISTRICT USING THE C 4.5 ALGORITHM

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The Family Hope Program is a social assistance program provided by the government to poor families who are designated as beneficiary families. Before distributing aid funds through the Family Hope program to applicants for assistance, the government first carries out an assessment of the applicant's data (data analysis) to determine whether or not the applicant is eligible to receive assistance from the Family Hope program. In determining the feasibility of providing assistance to prospective beneficiary families, there are several criteria that are used to evaluate. This assessment is based on qualitative analysis, namely Economic Conditions, Health, Child Dependencies, Elderly and People with Disabilities. To facilitate the determination of the eligibility of aid recipients, a decision support system model was created to assess the eligibility of aid recipients for the Family Hope Program.

A decision tree is a predictive model using a tree structure or hierarchical structure. Decision trees are one of the most popular classification methods because they are easy to understand. The C4.5 algorithm is a decision tree algorithm that is often used to create a decision tree because it has a high level of accuracy in determining decisions.

This decision support system application is an application that can be used to determine the eligibility criteria for submitting assistance. This decision support system is one of the alternative choices in determining the provision of assistance.

Keywords : Decision Tree, C4.5 Algorithm.