

ABSTRAK

DECISION SUPPORT SYSTEM FOR DETERMINING SOCIAL ASSISTANCE RECIPIENTS USING THE APRIORI ALGORITHM FOR COMMUNITIES IN HANGKUSA VILLAGE, SOUTH SUMATERA

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The distribution of social assistance in Hangkusa Village, Ogan Komering Ulu Selatan Regency, South Sumatra Province, is still conducted manually and often lacks accuracy. Many eligible residents are not recorded, while some less qualified recipients continue to receive assistance. This study aims to develop a web-based Decision Support System (DSS) using the Apriori algorithm to help village officials determine social assistance recipients more objectively, efficiently, and based on reliable data. The software development methodology followed the Waterfall approach, consisting of requirements analysis, system design, implementation, and testing stages. Data were collected through observation and interviews with Hangkusa Village officials. The Apriori algorithm was applied to identify patterns and relationships among socioeconomic attributes such as occupation, education level, number of dependents, and ownership of KIP or KIS cards. The research resulted in a system capable of identifying eligibility for social assistance based on variables such as working as a farmer, having a low level of education, possessing more than three dependents, and holding a KIS or KIP card. This application is expected to assist Hangkusa Village authorities in ensuring a more accurate and targeted distribution of social assistance.

Keywords: Decision Support System, Social Assistance, Data Mining, Apriori Algorithm

