

ABSTRACT

Tourism is one of the non-oil and gas sectors that is expected to provide a significant contribution to the country's economy. In developing tourism facilities, effective and efficient development is needed. The Special Region of Yogyakarta is rich in natural and cultural resources, has great potential in tourism. To maximize this potential, an appropriate methodology is needed in decision making in the problem of budget constraints in the priority of tourism facility development. The purpose of this final assignment is to design a decision support system application for determining tourist areas in the Special Region of Yogyakarta.

The methods used in this decision making are Analytic Hierarchy Process (AHP) and Simple Additive Weighting (SAW), AHP is used to determine the relative weight of various criteria in the decision-making process while SAW is used to determine the most optimal alternative from a set of available alternatives. AHP and SAW are used in This system is made based on a website that is made using the Laravel framework.

The results of this final assignment are in the form of a decision support system application for determining priorities based on a website in the Special Region of Yogyakarta to make it easier to determine the priority of tourist areas to be developed. With this system, decisions can be made quickly and accurately.

The benefits of a decision support system in the Yogyakarta Special Region Tourism Office environment include increased efficiency of decision making and better data analysis.

Keyword: Analytic Hierarchy Process (AHP), Simple Additive Weighting (SAW), Decision Support System, Tourism