ABSTRACT
DECISION SUPPORT SYSTEM
TESTING THE FEASIBILITY OF THE BUS IN PERUM DAMRI KOTA BANDUNG

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Feasibility Testing Bus is the examination of the physical part of the bus and the bus engine components that comply with the operational feasibility of mass transit because very related to the safety and comfort of passengers. to decide on the bus that deserves to be operationalized, Manager of Engineering are still experiencing difficulties and long enough in determining the feasibility of the bus because of too many criteria and sub-criteria to be bus components in the analysis of the results of the testing assessment buses that have been tested. Additionally because of the criteria and sub-criteria are tested by Manager Engineering Perum Damri be less rigorous in terms of testing the feasibility of the bus.

Analysis of testing the feasibility of these buses utilizing methods Analytical Hierarchy Process (AHP) as a method of Decision Support Systems (DSS) in the bus component analysis process using multiple criteria (multiple criteria) to determine the feasibility of testing priority right bus. AHP is used as a model for multicriteria weighting in the electoral process priority. Methods of data collection techniques, literature, observation and interviews are used for problems related. In addition, techniques and data analysis model using structured flow method using Data Flow Diagrams (DFD) and Entity Relationship Diagram (ERD). This application is built with PHP my admin tools as the design of the user interface and XAMPP as media database processing.

Based on the results of the testing that has been done is to facilitate the processing of the bus feasibility assessment test results, speeding up the process to determine the feasibility of the bus and were able to reduce the error rate in determining the feasibility of a bus.

Keywords: Decision Support Systems, Feasibility Testing, Analytical Hierarchy Process