

ABSTRACT

Decision Support System for Study Program Selection Using VARK and Backward Chaining Method

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Selection of study program is very important because in the study program lecture activities will be carried out. Indecision becomes a polemic most of the prospective new students called camaba, in choosing specialization. After undergoing the lecture period, students regret the chosen specialization. Because it is considered not in accordance with the ability. Based on these problems, a system is needed that can answer the most appropriate concentration or study interest according to the abilities, interests and talents of the camaba. The purpose of this research is to make a Decision Support System (DSS) application for the selection of study programs using the VARK (Visual, Aural, Read and Kinesthetic) method and backward chaining. The VARK method functions to categorize learning based on the neural system used to determine learning strategies or learning styles and assessments. Then the backward chaining method functions to look for rules in the knowledge base whose conclusions are the solutions to be achieved, then from the points obtained, each conclusion is traced back the path that leads to the conclusion. From these various methods, it is hoped that it can help the marketing unit of Pembangunan Jaya University (UPJ) in providing recommendations for study programs for the Camaba. The research method used is mixed methods, namely by combining qualitative and quantitative gradually. The qualitative contains the results of interviews and student study data and the quantitative contains the conclusions of the results. This web-based application has features including input data containing input for initial program choices, report cards and VARK learning style tests as well as features of study program recommendations. After this application is built based on the results of white box and black box testing, it can be concluded that this application can function effectively in accordance with the design and analysis carried out.

Keywords: Study Program Selection, DSS, VARK, Application and Backward Chaining.

Libraries : 50

Publication Years : 2016-2021