

ABSTRACT

The Industrial Revolution 4.0 provided significant developments in the role of digital technology in every day-to-day activity. It is known that in fulfilling the accreditation requirements of a superior university. Qualified human resources support the University's effective and efficient performance. The quantity of lecturers is sufficient for the needs of the University, but not all of these lecturers meet the standard accreditation criteria. Telkom University requires lecturer data which will become recommendation material to fulfill one of the accreditation requirements in order to improve human resources and the quality of superior institutions. Lecturer criteria that are measured manually create difficulties in providing these recommendations and the time required is very long so that the work becomes inefficient.

In overcoming these problem a decision support system is needed that can provide recommendations regarding lecturers who meet the Human Resources (HR) criteria as one of the requirements for achieving superior Study Program Accreditation 4.0 using the Simple Additive Weighting (SAW) method. It is hoped that this system can help and fulfill lecturer criteria to achieve superior accreditation with more efficient and effective time performance in managing lecturer data in providing lecturer name recommendations.

This application uses the Java programming language as the front end, Python as the backend and Flask as the server. The results of this test will produce lecturer criteria according to APS 4.0 where the names that match the dataset will appear according to the ranking according to the study program

Keywords: *Decision Support System, Study Program Accreditation 4.0, Lecturer, SAW*