FINAL PROJECT TAKING FEASIBILITY VALIDATION SYSTEM USING WEB-BASED OCR
(CASE STUDY AT YOGYAKARTA UNIVERSITY OF TECHNOLOGY)

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ABSTRACT

The process of validating the feasibility of taking the final project carried out at the University of Technology Yogyakarta at this time, in the process there are obstacles to validating student KHS data in determining the feasibility of taking the final project. The study program must check the data manually by taking data from the student KHS and allow errors in the checking process by the study program (Human Error). This study aims to facilitate the process of checking student data to validate the feasibility of taking the final project course. This system uses web-based Optical Character Recognition (OCR) technology, with the tesseract.js library to be implemented into web technology, using the Programming Hypertext Preprocessor (PHP) programming language, Hyper Text Markup Language (HTML), Java Script and Cascading Style Sheets (CSS) and MySQL databases. The results of the implementation of testing using the Black box method of Unit Testing have 29 scenarios where all functions are successful, Introduction of student KHS data is tested using 15 samples of KHS data, Accuracy is 99.33% of approximately 500 character digits in student KHS data. The system is able to validate the feasibility of students in taking the final project based on 15 samples of tested data. Based on the research conducted, it can be concluded that OCR Technology can be used to facilitate the process of checking data and validating student eligibility in taking final project courses.

Keywords: Validation System, Optical Character Recognition, Web