

ABSTRACT

Currently, all of practicums administration are manually-operated. This causes practicums activities among lecurers, assistants, and students are unintegrated. Important datas such as students's grades and identity are easily misused by strangers. Besides, differencies of practicums business process and make-up class are one of the things to be concern.

An information system website of Diploma Telecommunication Engineering Laboratory is designed through this final project that provides lots of features to helpt the laboratories archiving datas, distributing important information, undertake all of practicum-related tasks including grading student's task, and lastly students and assistants attendance. Besides, this system is able to supports students to undertake a make-up class. To support the performance of the website, Laravel is used to shorten the website's development process, Bootstrap and Metronic to build the frontend development even easier and lastly MariaDB is used as the database management system to acquire larger storage engine with a powerful security and open source licence.

The subjective test acquired a great result, which is 4.8 obtained from the average of all the weight of the questionnaire. These results prove that the website has been meeting the needs of users in terms of user experience, display, facilitate users in every practicum cases, and able to support practicum activities. As for the performance is also quite good, webserver stress tool shows that errors that occurs are in range beetween 3.75% to 28.37% which is below 50%

Keywords: *Information System, Laboratory, PHP, Website, Webserver, MariaDB, Laravel, Bootstrap*