

ABSTRACT

The spread of the COVID-19 virus that has occurred in recent years has had a major impact on all sectors of human life, including the education sector. The decision to do online learning makes all teachers and students have to adapt to this new system. there are several schools that use the whatsapp application to carry out an online learning activity system, the use of application features will of course be very limited because it is not intended for things like that. making a web-based application under the name ITRAMS which is integrated with the Learning Management System aims to provide convenience and flexibility for teachers and students in carrying out online teaching and learning activities without having to feel burdened with limited data storage media capacity, and several other obstacles.

The web-based application that the author proposes under the name ITRAMS which is integrated with a learning management system, allows teachers to share learning materials in class forums without having to be constrained by limited data storage media because they have to continuously store material files and student assignments, because each material file and Student assignments uploaded to the class forum will be automatically saved in the system data store. Teachers can also give exams and share assignments with a schedule that can be arranged as needed, can provide realtime chat features on the desired forum, and several other features that have been provided.

The final result that the authors expect from the use of the ITRAMS application which has been integrated with the Moodle learning management system is to improve the quality of teaching and learning by making the value of student activities in online class forums either when uploading assignments, completing quizzes, or accessing material provided by the teacher as a parameter of success from implementation of the system that has been proposed by the author.

Kata Kunci: *e-Learning, database, platform, web application, data management.*