

## ABSTRACT

In the implementation of e-learning using Learning Management System (LMS) or a system that supports learning, students can organize all ways to control all learning activities. One of the applications that can help organize study time is Colega task reminder application. This research focuses on redesigning the interface of Colega application according to the needs of learners. The purpose of this research is to redesign the Colega application interface that is suitable and easy to use based on the needs of learners (students) and increase the level of usability, where in the application there are still problems that do not meet the needs of learners (students). This research uses the Learner Centered Design (LCD) method because the principle of the method is collaboration that allows learners to develop, test, and analyze their ideas on the product to be made. The results of the interface and interaction redesign will be measured for usability aspects using the System Usability Scale (SUS). From the results of usability testing on the interface, 60.62 was obtained to 78.12, an increase in the value in the usability aspect was found. With this increase, it can be concluded that the results of the interface redesign and interaction of the Colega application can be accepted by learners (students). This is supported by the test results which show that the learners (students) feel very helpful using the solution design offered because it is considered to be able to overcome the problems they experience.

**Keywords :** *E-learning, Learner, Learning Management System, Learner Centered Design, System Usability Scale, Usability*