

ABSTRACT

Education is a factor to make a country progress. With the development of technology, education can be carried out in various ways, one of which is distance learning using the e-learning system. e-learning is a learning method using the internet as a learning medium. One of the e-learning media platforms is the LMS or Learning Management System on a website basis. LMS can be used to communicate, collaborate, and much more to support learning. But learning activities also require a level of concentration from students so that they can be understood properly. It's just that with online learning methods, the level of focus of students can decrease due to distraction from the environment around students.

With these problems, a system is needed that can detect the level of student focus whether students are focused or not when participating in online class learning. Therefore, the author created a product that uses an eye-tracking system to detect student focus during online learning. Eye-tracking system is a system that can detect a person's eye movements by following what is seen in real-time. This system will predict a person's point of view using data in the form of gaze points. Gaze point is the intersection of the direction of view with the surface of the object being viewed. This system also uses threshold lines in determining the focus and non-focus of students. If the eye-tracking system gets gaze point data that is outside the threshold line, the system will detect that the student is not focused on learning on e-learning.

on the system that has been built, the product can detect students who are not focused directly in realtime and also the time of the event as evidenced by the same log at the time of the incident. This eye tracking system is also tested on students with several tasks that have been defined. From the results of the experiment, student users stated that the system was easy to use. With the eye-tracking system, students can improve their focus and can help to remind students to refocus on learning.

Keywords: E-Learning, LMS, Eye-Tracking, Fokus