ABSTRACT

E-learning is a learning system that is utilized as a way of teaching and learning without the need for direct face-to-face interaction between educators and students (Ardiansyah, 2003). Teachers with time and location restrictions may find it simpler to assist students with E-Learning using E-Learning. Currently, the Ministry of Education and Culture's e-report is widely used in schools for processing student grades. However, teachers have difficulty using e-learning because it does not appear to be user friendly, so they are unsure how to use it and instead choose to process student grades using Microsoft Excel.

To address the issues raised above, it is important to create an application that will make it simpler for teachers to process student grades in an automated, efficient, and user-friendly manner. EduRoom is an online learning program that runs on a website platform. Users must initially subscribe in order to utilize the EduRoom application. The goal of this research is to provide features that make it easier for people to join up for EduRoom start-ups. The Laravel framework and MySQL database were used to create the subscription functionality. Extreme Programming was utilized in the development of the subscription function.

The application subscription feature may be approved by users with a total User Acceptance Testing value of 292 with an average of 86 percent, according to test findings using the BlackBox Testing technique. In Load Testing, the EduRoom website begins to see a 12 percent rise in failure for 45 users out of a total of 300 users, with five people spawning per second. However, before achieving the objective of 300 people, the server blocks IP addresses, halting testing and preventing access to the EduRoom website.

Keywords: EduRoom, *E-Learning, Subscription Business Model, Start up*, *BlackBox Testing, Load Testing*