

ABSTRACT

Telkom Institute of Technology (IT Telkom) is an institution specializing in Indonesian studies program in the field of Information and Communications Technologies (ICT) and has a vision to become the international standard universities. These institutions need to innovate in teaching and learning. E-learning is the process of distance learning, effective and efficient because the learning materials can be accessed anytime and anywhere. IT Telkom is currently developing e-learning to support the lecture.

Learning software or content is a key element in e-learning, if there is no software learning the e-learning can not be used according to its function. Some of the obstacles that happens is still a lack of interactive multimedia learning software, both subjects and materials to support the center's existing IT Telkom.

Java is one of the Android mobile technology that is currently much in demand and interesting to learn, especially in central Java study IT Telkom. However, according to a preliminary survey conducted on thirty-five respondents Student Information System, the information that as many as 57% of the total respondents thirty-five students are keen to learn Java Android and 52% of the total is also very amenable if material or instructional materials presented in the form of interactive multimedia learning software. Development of interactive multimedia learning materials software Android Java aims to create engaging and interactive learning. In the software there are learning materials, videos and quizzes. The material in this Android software are learning Java Web Application and Mobile Application, Understanding Android, Android Architecture and Applications, Activity and Layout Android, Button Android and Android Activity lifecycle. Instructional Design used in the Development of learning software is the ADDIE model, as well as animated e-learning content is built using Adobe Flash CS5 action script 2.0.

The final results are expected from the Development of learning software is that it can be useful to support the center's activities Hybrid Enterprise Business

Application Developer (HEBAD) Faculty of Industrial Engineering, IT Telkom and it is possible to be marketed to the industrial world.

Keywords: ICT, learning software, content, e-learning, Java Android, instructional design, ADDIE