

ABSTRACT

IMPLEMENTATION OF READING AND IQRO TAJWID LEARNING AUGMENTED REALITY TECHNOLOGY

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The current advancement in technology is increasingly rapid, especially in the field of information and communication technology. The Integrated Islamic Junior High School (Indonesian: SMPIT) Permata Bunda Alawiyah is a private Islamic school located in Bandar Lampung that teaches the science of tajwid. This research builds an interactive tajwid learning media based on Augmented Reality which contains attractive visualizations to enhance students' enthusiasm for learning and improve their understanding of the material taught through the development of software applications using the Multimedia Development Life Cycle method. This application is based on Marker Based Tracking. Based on the results of functional testing, the application is shown to function well. The testing result for camera distance and resolution showed that the application can detect markers from distances of 15 to 135 cm using smartphones with different specifications. The satisfaction testing of the application through a questionnaire with a total of 30 student respondents using the System Usability Scale method obtained an average SUS score of 90, indicating that the application is highly acceptable to students.

Keywords: Tajwid, Augmented Reality, Marker Based Tracking, System Usability Scale.

