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THE APPLICATION OF « NEMO » ARTIFICIAL INTELLIGENCE IN ARABIC LANGUAGE LEARNING IN THE 4.0 REVOLUTION ERA AT AL-KHALIFAH ISLAMIC BOARDING SCHOOL CIBUBUR

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Abstract

Android application-based learning media is an effective way because students' motivation has increased in learning and practising learning activities. Learning media which utilizes Android, which emphasizes on several applications that are quickly owned by all students and instructors, so that they are comfortable and affordable. The learning media which can be used in the class include books, tape recorders, video recorders, films, slides (picture frames), photos, graphics, television, and computer. Nemo is an android application designed as a medium of learning and language learning by mastering many useful words. In the android application, Nemo is like a simple pocket dictionary, which helps improve the language level through various learning materials. This study examines the effectiveness of Android-based Arabic Nemo teaching materials for students at Al-Khalifah Islamic boarding school Cibubur. Beginner level students at Al- Khalifah Islamic boarding school Cibubur in learning Arabic. Many relevant studies prove that the teaching and learning activities using AndroidAndroid made learning outcomes better than teaching and learning activities without using it. This study aims to test the effectiveness of instructional media on learning outcomes, and whether it is more effective than teaching and learning activities that do not use instructional media in Arabic learning, the average value obtained indicates the benefits and effectiveness of using NEMO media on success in teaching and learning activities.

Keywords: The Application of « NEMO » Artificial Intelligence, Arabic Language Learning, the 4.0 Revolution Era

Nowadays, the world is increasingly advanced, and all aspects of life are in development. The world of education is very dependent on all aspects of its supporters. Efforts to improve the quality of the process and educational outcomes are always researched, sought, and viewed from various education components. Educators are required to master the material and be rhetorical experts, choose methods, media, and attention to the learning process, for example, motivating students both physically and psychologically, especially the ability to parse learning material.

Teaching and learning Arabic as a foreign language is challenging since it is not used in the students' daily life activities. The interest of Indonesians in learning Arabic is limited to students and is also in demand by various other professions with various interests. Activists of Arabic Speakers of Indonesia and researchers whose research on Arabic requires knowledge concerning the lives of Arab people and their culture. Therefore, the use of media for language learning is increasingly attractive what makes both educators and students motivated in learning and practising

the learning activities; teaching materials are all forms of material used by teachers in conducting the learning process, teaching materials can be said to be a significant problem that cannot be ignored in a single unit of discussion in how to make teaching materials. (Prastowo, 2012) With this learning process, students can choose whatever exciting things they will encounter in class; educators' task is to use them.

Android application-based media, when used in teaching and learning the language, is an effective way, because students increase their motivation in learning and practising activities. Learning media utilizes AndroidAndroid, which emphasizes on several applications that are quickly owned by all students and instructors so that they are secure and do not cost much. Gagne and Briggs in the Book (Azhar, 2002) provide a limitation on the scope of the median including physical devices intending to convey subject matter such as books, tape recorders, video recorders, films, slides (picture frames), photos, pictures, graphics, television, and computer.

Based on the background above, it can be said that the problem that will be discussed is the Effectiveness of Using Arabic-based Android Nemo teaching materials for beginner level students of Al-Khalifah Islamic boarding school Cibubur. Furthermore, the purpose of this research is to find out how effective is the use of learning outcomes of Android-based Arabic Nemo teaching materials for beginner level students of Al- Khalifah Islamic Boarding School Cibubur. Besides that, this research is also expected: 1) to develop student and teacher creativity towards the application of android technology as a learning media, 2) Can add insight on the effectiveness of using android, 3) provide ease of learning process and add references for students and teachers in the learning process.

Nemo Android Educational Media

The media is a vehicle for channeling learning information or channeling messages Gerlach and Ely (Azhar Arsyad: 2007: 3) says that the media when understood in broad outline humans, materials, or events that build conditions that make students able to obtain knowledge, skills, and attitudes. Nemo is an android application that is designed as a medium of learning and language learning by mastering many useful words. In the android application, Nemo is like a simple pocket dictionary so that it helps in improving material for learning and language learning. Nemo display is based on a simple application design

METHOD

This study uses a qualitative method with employing data collection techniques, namely, questionnaires, participant, observation, and documentation. Arabic teachers at the boarding school as an instrument because they are directly involved. The researcher always interacts with the population in this study, namely boarding school students, amounting to 40 people. Furthermore, the implementation phase of the experiment begins with the application of the treatment pattern using Nemo android media in learning Arabic. The implementation is divided into several stages, namely: a) the preparation phase by observing in class and then getting approval from Arabic teaching experts and their instructors, before the implementation of the learning process, first prepare a learning unit consisting of subjects, indicators, learning strategies and time allocation on learning Arabic, b) the implementation phase, namely the learning process stage is carried out using android media.

The instrument was developed and adapted to the Arabic syllabus and elaborated from the subject to sub-subjects and indicators that must be achieved. The pattern of test development uses the learning achievement test model; the question model uses the appropriate application, the Nemo application. Furthermore, the initial test is given before the learning process occurs, while the final test is given after the learning process occurs. Data have been then analyzed using descriptive statistical techniques. Arabic Language Teachers acted as instruments because they are directly

involved, and this semester they teach Arabic. So they always interacted with students.

Observations have been used better to understand the context of the data in class situations to obtain validation of the data. With an inductive approach, the researcher opens the possibility of finding a discovery and a more comprehensive picture. The object of observation starts in the class, held once a week (according to the Arabic lesson schedule) observations are carried out for one month (4x meetings). The validation technic used time is external validation, which is the result of research able to be applied to basic / beginner level Arabic classes so that the data obtained are representative. The existing reliability in qualitative research is plural, dynamic, and always changing, so it needs its measurements.

According to Suryabrata (1983: 23), data analysis is the process of organizing and sorting data into a pattern of categories and fundamental units of description and working hypotheses, as suggested by the data. Through this analysis, all data that have been collected are broken down into the division of similar data groups so that the final data obtained are comprehensive (complete and comprehensive). Meanwhile, according to Sanjaya (2006: 144), analysis is a process of systematic search and planning of all data and other materials that have been collected, so that researchers understand correctly then what they have found can be presented to others. This method is a natural way to collect, organize, present, and analyze research data in the form of numbers in an organized manner and draw careful conclusions and logical decisions. Analysis activities include firstly preparation, second tabulation, thirdly application of data following the research approach (Arikunto, 2001: 240).

RESULTS AND DISCUSSION

Arabic language educators for non-Arabic speakers are required to have more mastery, namely the mastery of methods and technical strategies in learning the language. Because Arabic educators for non-Arabic speakers are not the same as teaching the first/second language, and have two years of experience in the same field and attend Arabic language teaching training. Learning innovation is indeed very necessary for educators and students. Educators can also be potential direct media because they are visual as well as verbal, it is better if educators create innovations in instructional media, to answer the question of the role of the media and the progress of the times, the results of the questionnaire and the district obtained the following results; in the initial stages to get the link between users and how effective the Nemo android media is for student learning, then the questionnaire is distributed by 40 students, Based on the results of the questionnaire it can be said that all students answered yes, emphasizing that the effectiveness of learning Arabic language and culture using the android Nemo media. By utilizing Nemo android media owned by students, in this case, is the cellphone. Nemo is a special application form for learning languages. Diverse responses from students answered that they could master the material at the beginning of the semester by relying on media that could be used anytime and anywhere so that it was effective. Students expect the benefits of an android application by needs, the desire to master Arabic easily, especially writing and speaking.

This study shows that the effectiveness of instructional media on learning outcomes was more effective than teaching and learning activities that do not use instructional media on Arabic lessons. This better average score means success in teaching and learning activities. One indicator is the achievement of the objectives of teaching and learning activities achieved so that changes or learning experiences experienced by students towards a better or positive direction. The use of Nemo android application media as an alternative and reference type of media can be used in teaching and learning activities to improve student learning outcomes of pesantren in language lessons so that students' abilities can be maximized.

This study found that there was an effect of the Effectiveness of Using Arabic-based Nemo

android-based teaching materials for beginner boarding school students. In teaching and learning activities make learning outcomes better than teaching and learning activities without using an android. This study also found that AndroidAndroid nemo-based audiovisual learning media on learning outcomes turned out to be more effective than teaching and learning activities that did not use android nemo-based audiovisual learning media. This better grade point means success in teaching and learning activities. Djamarah and Zain (2006: 105) state the success of teaching and learning is "a process of teaching and learning about a teaching material that is declared successful if the specific instructional objectives (ICT) can be achieved." One indicator that the objectives of teaching and learning activities are achieved is by a change or learning experience experienced by students towards a better or positive direction.

CONCLUSION

Learning media used in-class learning is very influential on the acquisition of the suitability of learning outcomes. Educators and the media embody learning activities with innovative and exciting learning media, most importantly, for the beginner level of Al-Khalifah Islamic boarding school Cibubur. Nemo application is a learning media innovation or teaching material that can be effective and help students in mastering the material according to established competency standards. Based on the results, it is known that Al- Khalifah Islamic boarding school Cibubur students need ICT-based media, especially the application form on AndroidAndroid, with a convenient and effective reason.

This study shows the results that the effectiveness of instructional media on learning outcomes is more effective than teaching and learning activities that do not use learning media in Arabic, this better average score means success in teaching and learning activities. One indicator is the achievement of the objectives of teaching and learning activities achieved so that changes or learning experiences experienced by students towards a better or positive direction. The use of Nemo android application media as an alternative and reference type of media that can be used at the beginner level of Al- Khalifah Islamic boarding school Cibubur students in teaching and learning activities to improve student learning outcomes, so that students' abilities can be maximized.

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