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E-Learning in Pesantren: Learning Transformation based on the Value of Pesantren

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Abstract. Socially, the presence of pesantren since the XX century has played its role in the midst of society, even the pesantren education system has been believed to be the last moral bastion of any educational model today, perceived to have reached a critical point and become a concern of Islamic educational values. Therefore, the study of pesantren education in recent years has become an essential part of all forms of liberation, not as domestication and social domestication. E-learning based learning can be implemented as a transformation of learning activities by designing, developing, utilizing learning through e-learning. Therefore, this learning activity is one of the relevant media if used to realize the quality of boarding school education. Besides can provide convenience in conveying information so that the learning process and running effectively and efficiently. E-learning based learning management, both in the form of; web course, web centric course, web enhanced course can improve the understanding and quality of learning.

1. Introduction

Socially, the presence of pesantren since the XX century has played its role in the midst of society, even the pesantren education system has been believed to be the last moral bastion of any educational model today, perceived to have reached a critical point and become a concern of Islamic educational values. Therefore, the study of pesantren education in recent years has become an essential part of all forms of liberation, not as domestication and social domestication. Thus, the implementation of the pesantren education system seems to be the frontline for transforming the values of the Islamic teachings, by conceptualizing the social values above, in order to produce ideal goals, the activities of the pesantren education system learning process are intensively carried out [1].

In line with globalization's opposition, it has brought a very wide impact, including in education both in public schools and pesantren. Therefore, one of the impacts of globalization in the education system today, is the use of e-learning in the process of learning activities, so this learning process by using e-learning can be understood, has various advantages and able to overcome differences in learning problems. Therefore, e-learning based learning activities can be done in time and distance, even the time can also be done anytime. But more than that, e-learning-based learning can also improve the quality of learning by way of utilizing online media through technology, information and communication, as one of
the learning resources, so as to generate efficiency and effectiveness in learning activities, even e-learning technology is understood as one of the alternatives that can be used in learning in the global era [2].

In another aspect, the challenge of pesantren education is complex, along with the dynamics of the development of science and technology, therefore pesantren education needs to make changes in the field of learning from conventional learning model to technology and information (e-learning). This view is the result of the rapid development of cumulative technology, which seems to be irreversible in human life in the 21st century [3]. Therefore, pesantren education continues to play its role dynamically in the midst of people's lives, as is done by Darul Lughah Wal Karomah Kraksaan Pesantren, that is by applying the learning model, aimed to offset so that pesantren graduates not only menguasi Islamic sciences, also general science and technology. In addition, with the changes in learning meant that the effectiveness and flexibility of learning can be achieved well [4].

Therefore, this research activity is based on a problem in Pondok Pesantren Darul Lughah Wal'Karomah Kraksaan Probolinggo East Java, about the learning model used through e-learning system such as; based learning, web-based learning, virtual classroom learning, as one way to improve the quality of boarding school graduates. In addition, to provide an in-depth understanding, this research using phenomenological approach with the type of case study research, then researchers tried to be able to describe various phenomena that occur in accordance with the observations and results of this study

2. Learning Paradigm Based on E-Learning

The development of technology, information and communication today can significantly affect the social life of the community [5]. Such progress is certainly determined by the positive attitude of society in general, leaders of education, learners, and educational staff, especially on technology, information and communication. The positive attitude of the community that has been growing towards this technology, every day more and more number of users and internet service providers. Today, users of technology, information and communications have experienced tremendous growth, users of technology, information and communications have doubled day by day, as the results of the study explain that, in 2008 internet users worldwide recorded about 16 million people, year 1995 jumped to about 360 million people, in 2000 around one billion people, in January 2009 showed that Internet users have reached more than 1.5 billion people worldwide. While in 2017, more than 50 percent or about 143 million people connected to the Internet network, at least so according to the Internet Service Providers Association of Indonesia (APJII), the majority of Internet users as much as 72.41 percent still from the urban community. Based on the geographical area, Java community is the most exposed to the internet that is 57.70 percent, Sumatra 19.09 percent, Kalimantan 7.97 percent, Sulawesi 6.73 percent, Bali-Nusa 5.63 percent, and Maluku-Papua 2.49 percent [6].

Understanding the Internet which is an extension of the meaning (interconnection and networking) is understood as a global information network that allows individuals to connect between each other around the world, Internet development began from educational institutions and research results in the United States on the initiative of the US Department of Defense, recorded four major US universities that pioneered the introduction of the embryo of the internet namely; University of Utah, University of California at Los Angeles, University of California at Santa Barbara and Stanford Research Institute [7]. Thus the internet is often associated in the college environment, so that its use is more emphasis on education, not only schools but also Islamic educational institutions both madrasah and boarding schools. In that context, the process of internet-based learning, technology and information is often perceived as a learning system with the utilization of online learning which then gave birth to learning-based (e-learning).

Thus, e-learning based learning system is expected to improve the effectiveness and efficiency of learning, as well as to overcome various problems of the education system in Indonesia, namely; equity, quality, relevance of competitiveness of graduates, management (governance), accountability and image to education. Therefore, e-learning based learning becomes an important part in the educational unit of both public institutions and Islamic educational institutions-pesantren-. Etymologically the term e-learning comes from the letter 'e' interpreted with (electronic) and learning, which is interpreted by
learning. Based on the results of research studies conducted by the United States, which supports the development of e-learning, states that computer-based learning is very effective, allowing 30% better education, 40% less time, and 30% much cheaper cost. While the World Bank in 1997 announced the Global Distance Learning Network program with 80 partner countries around the world, through this GDLN program, the World Bank provides students with 5 times more e-learning from 30 to 150 students at a cost 31% cheaper [8].

While the use of e-learning in learning is often done, because e-learning-based learning has many advantages among others; 1) improving the interaction of learning (enhance interactivity), facilitate the interaction of learning from where and at any time (time and place flexibility), has a wide range of potential (to reach a global audience), facilitate the refinement and storage of learning materials (easy updating of content as well as achievable capabilities). Thus, when the term e-learning is associated with learning, the term becomes e-learning-based learning, conceptually understood as a learning model with the use of electronic services in the learning process, such as internet network, satellite broadcast, audio, video tape, interactive TV, CD-ROM, and computer-based training, with the aim of improving the quality of learning. Universally, e-learning learning according to UNESCO is defined as "... learning through available in computers, thus e-learning or online learning is always connected to computers" [9].

Clark and Mayer explain that e-learning as training is delivered on a computer (including CD-ROM, Internet, Intranet) that is designed to support individual learning or organi- zational performance goals [10]. In another perspective, Rosenberg explains that e-learning learning refers to the use of Internet technology, to deliver solutions that increase knowledge and capability based on three things, among others; 1) e-learning is networked, which makes it capable of instant updating, storage, retrieval, distribution and sharing of instruction or information, 2) it focuses on the end-user via a computer using standard Internet technology, on the broadest view of learning-learning solutions that go beyond the traditional paradigms of training [11].

Based on the theoretical building above, e-learning based learning can be understood as a model of learning management through internet media covering all components of learning, namely; materials, processes, evaluation, interaction, communication, and cooperation [12]. Even e-learning-based learning is one alternative to solve various educational problems, especially after the facilities that support the implementation process, the e-learning increasingly in demand [13].

3. E-Learning Based Learning Model

In that context, e-learning based learning based on constructivism learning theory developed by Vigotsky, where learning is done through interaction process between social and physical environment. The learning environment with constructivist approach is a learning model that reflects the activities can be done simultaneously, covering several things, among others; a) provide experience in the knowledge development process; b) provide experience and appreciation; c) instilling the learning process in a realistic and relevant context, d) encouraging ownership and voice in the learning process; e) inculcate learning in social experience; f) encourage the use of various types of representation; g) promote self-sensitivity in the development of science. Thus, the conventional learning with e-learning based learning lies in three things, namely flexibility and interactivity. Learning model based on e-learning learning materials can be accessed anytime and from anywhere, but it can enrich the learning resources [14].

In addition, e-learning based learning model can also create e-learning interactivity directly or indirectly, through visualization and electronics [15]. Therefore, although the implementation of e-learning based learning that is now very varied, but it is based on a principle or concept that the e-learning based learning model referred to, as an effort to distribute learning materials through electronic media or the internet so that learners can access it in various places. This characteristic of learning activities based on e-learning aims to create a flexible and distributed learning culture [16] Theoretically the flexibility of e-learning-based learning, significantly impacting the learning process by choosing flexible time and place of learning, as well as the quality of learning. Therefore, to create e-learning based learning, it is necessary to design, instruction and instructional design is appropriate [17].
While distributed learning in learning activities, is a model of learning with different locations. Therefore, to create a learning culture with (distributed learning) at least need to consider several things, namely; learners become targets and expected learning outcomes. Understanding of the students becomes important, where a learner should know the expectations and goals of learners in following the e-learning learning, in the form of speed in accessing the internet, the cost for internet access, and background knowledge related to readiness in following the learning. Understanding of the learning outcomes is also needed to determine the scope of the material, the framework of the assessment of learning outcomes, and knowledge on the initial process [3].

Development of e-learning based learning model there are at least three things that must be done, among others; web course, web centric course, web enhanced course.[18] The e-learning-based learning model with the web course is the use of the Internet for educational purposes, where the presence of learners and teachers is completely separate and no need for face-to-face meetings. All teaching materials, discussions, consultations, assignments, exercises, exams, learning activities can be done via the internet. Therefore, this learning typography uses a remote system. While learning e-learning with (web centric course) is a model of learning that can combine distance learning and face-to-face, some of the learning materials delivered through the internet is also face to face. This instructional portrait gives students instructions to learn the subject matter through the web they have created. While e-learning based learning model with (web enhanced course), is a model of learning by utilizing the internet media, to provide enrichment to learners. Therefore, the role of faculty in the context referred to, is required to master the technique by presenting the material through the web interesting and desirable, serving guidance and communication via the internet, and other skills needed [19].

Thus e-learning based learning with internet utilization for the intended learning, it is possible to study at boarding school Darul Lughah Wal'Karomah Kraksaan Probolinggo East Java, through the web course and web centric course. While the learning activities in the pesantren, which is done by way of utilization (web enhancing course). Therefore, based on research studies at the boarding school institution, how the form of Internet utilization can be mastered by the teacher as a user of e-learning learning in Darul Lughah Wal'Karomah Kraksaan Probolinggo East Java that can be done together. Thus the use of the Internet for educational and learning purposes as follows: 1) teachers and learners can communicate [20], discussing through the internet. Second, teachers and students can use instructional materials or structured and scheduled learning instructions. Third, students can review the teaching materials every time, and can add information related to teaching materials. Fourth, the role of the student becomes more active. Fifth, relatively more efficient [21].

4. E-Learning Based Learning Management in Pesentren
Departing from the context in question, e-learning based learning management in Pondok Pesantren Darul Lughah Wal'Karomah Kraksaan Probolinggo in e-learning based learning activities, at least can have several principles, among others; first, e-learning based learning in the pesantren referred to, as a tool, the learning process so that it can solve problems, produce creativity, make learning process easier, directed even more meaningful; second, e-learning based learning as one of alternative approach, and have dependence on technology. Third, e-learning based learning, can be done by building the readiness of teachers, learners, facilities, culture learning system. Therefore, according to Fryer explained that there are at least two approaches that can then be done by teachers, among others; Theme-Centered Approach, this view can be done by determining the learning objectives to be achieved, by utilizing information technology to achieve the purpose of learning. While the software approach (Centered Approach), begins with identifying information technology, then teachers plan appropriate learning strategies for a learning topic [22].

Departing from the context in question, learning innovation in educational institutions Pondok Pesantren Darul Lughah Wal'karomah Kraksaan become something important and one of them can be done through e-learning based learning [23] Therefore, the learning model above, can be done through e-learning based learning management in accordance with the needs of learners. Learning model is intended as one of the efforts in improving understanding and equipping learners in accordance with current needs.
As the view, expressed by Tajul Ariffin Noordin that, the use of technology media in learning is expected to affect the development of understanding of learners, covering several aspects, among others; a) the use of e-learning in the learning process can serve as one of the tools to enable and expand the science paradigm, b) the use of e-learning can be used to realize knowledge integration; c) use and exploit positively all forms of e learning model, d) the influence of e-learning based learning can be perceived positive results when information technology in globalization era today is really utilized and utilized by stakeholders [24].

Similarly, e-learning based learning model, implemented in Pesantren Darul Lughah WalKaromah Kraksaan Probolinggo, is done to facilitate and improve the understanding of learners in studying the teachings of Islam, this is evidenced by the many Islamic (software) software can be utilized, support the learning, for example; power point, flash, digital Qur'an, digital Hadith, e-book. Thus the use of e-learning can bring a positive impact on learning in Pesantren Darul Lughah WalKaromah Kraksaan Probolinggo. Besides, it can also create fun learning. Therefore, the process of e-learning based learning activities can be done with the following; a) teach the material of the Qur'an Hadith about the science of tajwid by utilizing web blog on the internet which explains about the law of dead and tanwin; b) give every learner the opportunity to display their web blog and explain the material they have set up according to the syllabus in front of the learner; c) give other learners the opportunity to ask by utilizing the comment facility in the web blog that has been displayed or asked directly; d) provide opportunities for learners to download games about tajwid science in the playstore, then the teacher appoints learners to try by answering the questions that exist in the games; e) provide detailed explanation of the material, complete the answer by using the media web blog, and assess the results of students' answers in media games.

5. Conclusion
E-learning based learning at Pesantren Darul Lughah WalKaromah Kraksaan Probolinggo, can be implemented as a transformation of learning activities by designing, developing, utilizing and managing learning through e-learning. Therefore, this learning activity is one of the relevant media if used to realize the quality of boarding school education. Besides can provide convenience in conveying information so that the learning process and running effectively and efficiently. E-learning based learning management, both in the form of; web course, web centric course, web enhanced course can improve the understanding and quality of learning, thus becoming a solution for teachers in Darul Lughah WalKaromah Kraksaan Probolinggo Pesantren.

Besides, it can also create fun learning. Therefore, the process of e-learning based learning activities can be done with the following; a) teach the material of the Qur'an Hadith about the science of tajwid by utilizing web blog on the internet which explains about the law of dead and tanwin; b) give every learner the opportunity to display their web blog and explain the material they have set up according to the syllabus in front of the learner; c) give other learners the opportunity to ask by utilizing the comment facility in the web blog that has been displayed or asked directly; d) provide opportunities for learners to download games about tajwid science in the playstore, then the teacher appoints learners to try by answering the questions that exist in the games; e) provide detailed explanation of the material, complete the answer by using the media web blog, and assess the results of students' answers in media games.
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