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The Use of Edmodo Media on Digital Literacy in Elementary Schools of 3T Area during the Covid-19 Pandemic

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Abstrak

Coronavirus Disease adalah penyakit menular yang pertama kali muncul di Wuhan, China pada tahun 2019. Maraknya penyebaran virus Covid-19 di Indonesia, membuat pemerintah mengeluarkan kebijakan baru guna memutus mata rantai penyebaran virus Covid-19 yaitu dengan menghimbau agar pembelajaran daring yang dilakukan di rumah dengan menggunakan fasilitas internet. Tetapi pembelajaran daring tidak semua sekolah di daerah 3T di Indonesia melaksanakannya dengan baik, banyak kendala yang ditemui, dilihat dari segi fasilitas, guru dan siswa. Masih banyak guru yang hanya sering menggunakan media pembelajaran daring Whatsapp group dan banyak pengiriman tugas dari siswa di kirimkan melalui aplikasi tersebut. Selain itu dari segi siswa, siswa merasa bosan dengan menggunakan media tersebut, karena lebih banyak mengerjakan diskusi dan mendownload materi saja tanpa melakukan aktivitas diskusi dengan temannya ataupun guru pada pembelajaran daring. Edmodo adalah salah satu platform berbasis internet yang menyediakan layanan untuk membantu memfasilitasi guru menyampaikan materi dan tugas-tugas untuk siswa. Tujuan Penelitian untuk mengetahui Keefektifan media pembelajaran Edmodo pada literasi digital di sekolah daerah 3T. Jenis Penelitian ini menggunakan penelitian kuantitatif. Hasil penelitian menunjukkan bahwa penggunaan Edmodo sebagai media media pembelajaran efektif pada literasi digital di sekolah. Edmodo sebagai media pembelajaran E-Learning memiliki kelebihan dan meningkatkan ketertarikan belajar serta membuat suasana belajar menjadi lebih menyenangkan.

Kata Kunci: Edmodo, Daerah 3T, Literasi Digital.

Abstract

Coronavirus Disease is an infectious disease that first appeared in Wuhan, China in 2019. The wide spread of the Covid-19 virus in Indonesia has prompted the government to issue a new policy to break the chain of transmission of the Covid-19 virus, namely by calling for online learning to be carried out at home using internet facilities. However, not all schools in the 3T areas in Indonesia carry out online learning well, and many obstacles are encountered, in terms of facilities, teachers, and students. There are still many teachers who only often use the online learning media Whatsapp group and many assignments from students are sent through the application. Apart from that, in terms of students, students feel bored with using the media, because they only do discussions and download material without carrying out discussion activities with friends or teachers in online learning. Edmodo is an internet-based platform that provides services to help facilitate teachers delivering material and assignments to students. The purpose of this study is to determine the effectiveness of Edmodo learning media on digital literacy in 3T regional schools. This type of research uses quantitative research. The results of the study show the use of Edmodo as an effective learning medium for digital literacy in schools. Edmodo as an E-Learning learning medium has advantages and increases interest in learning and makes the learning atmosphere more enjoyable.

Keywords: Edmodo, 3T Region, Digital Literacy.

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INTRODUCTION

Coronavirus Disease is an infectious disease that first appeared in Wuhan, China, in 2019. Then it was shortened to "COVID-19" by W.H.O which stands for Coronavirus Disease 2019. The Coronavirus outbreak remains one of the worst global pandemics for decades. As part of the worldwide effort to combat COVID-19, many countries worldwide are closing schools to contain the coronavirus pandemic. According to the United Nations Educational, Scientific and Cultural Organization (UNESCO) monitoring, more than 100 countries implemented national shutdowns, impacting more than half of the world's student population, (Onyema et.al., 2020). School closures are highly controversial and affect many students in schools. School closures also affect the quality of teaching and learning and academic achievement, especially for students with special needs or learning disabilities who often require more physical attention and guidance from the teacher, (Pratama et.al., 2020). From the impact of Covid-19, Indonesia has also taken action for the learning process to be carried out online. Online learning is considered an effective solution to carry out the existing learning process from elementary school to tertiary level, so it is hoped that the learning process can continue and not stop in the middle of the road, (Arizona et.al., 2020). Regulation of the Ministry of Education and Culture issued Circular Letter 4 of 2020 regarding implementing Education Policies in the emergency period of the spread of COVID-19. The Circular explained that schools and universities should not carry out face-to-face learning/lectures.

Based on these rules, teachers and students carry out remote teaching and learning processes (at home) to prevent the transmission of COVID-19. The government considers online learning as the only solution to ensure the continuity of the learning process from elementary school to university. The government's rules make the local elementary school 3T in Madiun must implement distance learning by utilizing learning media. In online learning, the media commonly used is the Learning Management System (LMS), communicating using online learning media such as Zoom, Google Meet, and Open learning. There are many obstacles to online learning in 3T regional schools. Based on the observations made, there are problems in online learning applications in 3T regional schools. The first problem is that it is difficult for students to learn online using learning applications such as WAG. In addition, there are various obstacles to online learning, one of which is that not all students can access it because their parents work or some whose parents are technologically savvy and are not fluent in using applications.

The second problem is difficulties in the communication network. Some do not become obstacles in the signal, but others become, especially when the internet network is so bad after rain. The third problem, some students find it difficult to use learning applications. This has something to do with the first, which is related to human resources. With these various obstacles, the teacher must do other ways to continue learning. The fourth problem, the teacher can only use WhatsApp Group media and has never used other learning applications such as Edmodo. In elementary schools in the 3T area, there are still some teachers who are not yet fluent in using various online learning media, especially digital media, such as zoom, Edmodo, and google meet. This is because learning media, especially digital media, requires practice in its use.

The low use of online learning media applications results in low digital literacy. Digital literacy is an effort to know, search, understand, analyze, and use digital technology, (Akbar & Anggaraeni, 2017). The above conditions are relevant to what was stated by Spiers and Bartlett (2012) that although today's students are digital natives, they do not have complete knowledge of digital literacy, (Eryansyah et.al., 2019). The impact of low digital literacy in education can lead to boredom and boredom in online learning, which sometimes makes students answer teacher questions carelessly. In normal learning before the pandemic, boredom and stress from students when studying in the classroom can affect learning goals and targets. Therefore, teachers must think of effective strategies to get students out of their boredom and boredom. The

teacher must strive so that the learning atmosphere is not monotonous and can make all students interested and enthusiastic about the learning being followed.

From this problem, it can conclude that the online learning process must require innovative online learning media that teachers and students can use. Edmodo Online learning media is one of the effective learning media that teachers and students can use. Regarding the use of Edmodo learning media, it is almost similar to the Facebook application, which is already familiar to teachers and students. Edmodo learning media is a good and useful learning tool that makes and allows students to improve their learning process through active participation in online assignments and discussions, (Ngo.et.al, 2019). Edmodo is very useful for improving the student learning process. Edmodo provides more opportunities for students to practice together and engage with the reading assignments provided, (Yusop, 2011). Designed for educational purposes, Edmodo strongly supports the traditional learning system, which has several benefits and is considered one of the best educational methods.

Edmodo Learning Media is an educational site that takes ideas from social networks and refines them, then makes them suitable for the classroom, (Abbas dkk, 2020). Gabrina & Rahmawati, (2019) His research said several ways to integrate Edmodo into language learning activities, especially to build students' writing skills. Meanwhile, Fauzi, (2017) found that Edmodo can be used as a learning media to improve writing skills. This is because Edmodo is a free and secure learning platform free from ads, games, and other distractions used to provide a simple way for teachers to create and manage online classrooms and allows students to connect with teachers and other students anywhere, anytime. This is also supported by previous research using Edmodo media in the classroom.

Edmodo learning media selected to improve performance teacher and student learning outcomes because the media has a concept suitable for learning based on a secure social network and free in facilitating the teacher to create and manage classes virtual so students can connect with classmates and teacher anytime and anywhere, (Khodary, 2017;Pratama, R. A. & Ismiyati, 2019). Through edmodo teachers can provide online-based questions and teaching materials to train students' abilities, can help teachers build a virtual classroom, and reduce the negative impact of internet use by school students, (Ayuningtyas & Prastowo, 2022; Wicaksono et al., 2017). Therefore, this study aims to close this gap by examining the effectiveness of using Edmodo learning media for students' digital literacy in elementary schools in the 3T areas.

Edmodo learning media allows teachers and students to connect outside the classroom. The features in Edmodo support learning and communication between teachers and students. Teachers can post materials, videos, quizzes, and polls on Edmodo, where students can easily comment, download or send assignments anytime, anywhere, without coming to the girl, (Alifiyanti dkk., 2019). Edmodo learning media is user-friendly for educational purposes as it restricts access only to teachers and students who are already registered. Edmodo also has a 'parent feature to allow parents to view activities on the platform. Thus, parents can also participate in learning activities that can make exercises more transparent, (Hoesny et.al., 2020) Edmodo Learning Media is said to be an educational-focused social networking site. The meaning is similar to social networking sites like Facebook, but Edmodo is meant for learning, (Okumura & Bronson, 2016). Edmodo allows students to connect closely, contributing to developing a strong classroom community, (Makhroji & Imran, 2020). The goal to be achieved in this research is to find out the use of Edmodo learning media to improve digital literacy in elementary schools in the 3T region.

Edmodo media helps students to consult their teachers privately, review lessons and files posted by their teachers, and get feedback from their teachers easily, (Çankaya et al., 2013). Through this model, it is hoped that students will not feel bored and be more active when learning takes place so that It will hone students' digital literacy skills even better in 3T elementary schools. Research result it is of practical use. Theoretically, it can add scientific insight, especially in terms of using Edmodo media on digital literacy of students in the 3T area. Practically useful for students to improve critical thinking skills, and useful for teachers improve

teacher professionalism in using digital-based learning media in the learning process in the classroom. The novelty of this research is that in the learning process teachers can use digital learning applications in 3T regional schools. In addition, students' digital literacy increases and students understand the learning process using digital applications and in this study looking for solutions to the problems presented provide their own value. Other research innovations in digital literacy can be applied to 3T regional schools.

METHOD

The type of research carried out is pre-experimental with a research design that uses Post Pre-test only Design. This study aimed to determine the effectiveness of the Edmodo learning media on digital literacy in elementary schools in the 3T (Front, Remote, and Disadvantaged) area. Determination of the sample is done by using a simple random sampling technique. The population in this study was fifth-grade elementary school students in SDN 1 Kleco Madiun. Data collection techniques used are tests and questionnaires. The test is used to see students' understanding of the reading text. The instrument used in this study was a test question including pre-test and post-test. The population in this study amounted to 30 fifth-grade students in the experimental class at the 3T district elementary school. The data analysis technique used is descriptive statistics and T-test (T-test). A T-test was conducted using a prerequisite test, namely the normality and homogeneity tests.

RESULTS AND DISCUSSION

It conducted this research in elementary schools to determine the effectiveness of the Edmodo learning media in the experimental group and the Whatsapp groups learning media in the control group to improve digital literacy.

Normality test

A normality test is conducted to determine whether all variables are normally distributed. To find out if it is normal or not, if $\text{sig} > 0.05$, it is normal, and if $\text{sig} < 0.05$, it can be said to be abnormal. The calculation results obtained are as follows:

Table 1. Normality Test Results

No	Category	Sig	Conclusion
1	Experiment class pretest	0,375	Normal
2	Control class pretest	0,233	Normal
3	Experiment class posttest	0,454	Normal
4	Control class postttest	0,294	Normal

Based on the table above, it can see that the pre-test and post-test data on learning outcomes for both the experimental and control classes have a sig value > 0.05 , so it can conclude that the data group is normally distributed.

Homogeneity test

Accept or reject the hypothesis by comparing the sig price on Levene's statistic with 0.05 ($\text{sig} > 0.05$). The homogeneity test was used to determine the level of similarity of variance between the two groups, namely the experimental group and the control group. The homogeneity test results can be seen in the following table:

Table 2. Homogeneity Test Results

No	Category	$F_{\text{arithmetic}}$	Sig	Conclusion
1	Experiment class pretest	1,445	0,235	Homogeneous
2	Experiment class posttest	0,134	0,176	Homogeneous

The results of the research variables' homogeneity test are known as the pre-test. From the calculation of the significant price of the pre-test or post-test data greater than 0.05 ($\text{sig} > 0.05$), it can conclude that the data in this study has a homogeneous variance. The fcount value is 1.445 with a significant value of 0.235, while the post-test F-count is 0.134 with a significant value of 0.176.

Hypothesis Test

The study's conclusion was declared significant if $t\text{-count} > t\text{-table}$ at a significance level of 5% and $p\text{-value} < 0.05$. The t-test pre-test and post-test control class aim to determine whether there is an increase in the score. The summary of the pre-test and post-test t-test for the control class is shown in the following table:

Table 3. Results of Pre-Test and Post-Test Experimental class

No	Category	mean	$T_{\text{arithmetic}}$	T-Table
1	Experiment class pretest	9,50	1,304	2,000
2	Experiment class posttest	10,15		

Based on the table above, the average pre-test value of the experimental class was 9.50, and the average post-test value was 10.15, so it experienced an increase of 0.65. It was also found that $t\text{-count} > t\text{-table}$ at a significance level of 5 % ($1,304 > 2,000$) and has a $p\text{-value} < 0.05$. It can be concluded that there is a significant increase in the digital literacy scores of the control group students—judging from the level of significance that is $0.000 < 0.05$. Based on the hypothesis test, it shows that using Edmodo learning media is more effective for students' digital literacy than using WhatsApp Group media in the learning process.

In the Edmodo learning media, students can interact with teachers via the internet, where teachers can provide learning to students without meeting face to face in class. This can shorten the teacher's time in providing learning materials to students in online learning. In implementing Edmodo learning media in the classroom, the teacher can upload learning materials to the Edmodo account. After that, students will download the material that the educator uploaded. If they do not understand the material, they can ask through the comments column provided in the Edmodo account., (Kurniawati, et.al., 2015).

In this study, researchers applied Edmodo learning media and WhatsApp Group media to improve digital literacy in elementary schools. It can take many benefits from using Edmodo media, including 1) Edmodo is very efficient and new communication and discussion vehicle for teachers and students, 2) With Edmodo, students can easily interact and discuss with each other. Direct monitoring from the teacher, 3) Edmodo facilitates communication between teachers, students or parents of students. Edmodo emphasizes an efficient learning system with features such as existing social networks and Facebook but different functions as an online educational portal, (Sriyanto, 2018).

Based on the research results, it is empirically proven that the digital literacy of students who use Edmodo is higher. The response of students participating in online learning was enthusiastic, despite several obstacles. Edmodo learning media also makes teachers more active in providing online discussions through this Edmodo learning application. The online learning process using Edmodo learning media is considered to be able to add fun for students. This has been felt by students when learning using Edmodo learning media, feeling happy because there are advantages offered by Edmodo learning media, such as virtual online discussions using chat forums on the homepage and others. Where the online chat data on this homepage, students can have a discussion chat with the teacher and their friends about the material that needs to be explained by the teacher. With the enthusiasm of students participating in online learning using the Edmodo application, the student's digital literacy will unconsciously increase. Teachers can use technology-based learning media to achieve learning objectives, especially in evaluation and assessment, (Putranti, 2013).

Therefore, this means that Edmodo can improve the digital literacy of students and teachers in elementary schools. Digital literacy should be evenly distributed in 3T areas. Digital literacy is the ability to

create and share in different modes and forms, to create, collaborate and communicate more effectively, and to understand how and when to use good digital technology to support these processes, (Syarifuddin, 2014). Penelitian Khodary, (2017) It investigated The effect of Edmodo on student engagement and responsible learning in high school students in a chemistry course. As a result, research using qualitative and quantitative methods suggested that combining Edmodo encourages student engagement and responsible learning when certain Edmodo features are used. It investigated The effect of Edmodo on student engagement and responsible learning in high school students in a chemistry course. Based on the conclusions above, the researchers suggest that teachers can use and apply Edmodo learning media to digital literacy in schools so that students do not feel bored or bored in the online learning process or during face-to-face meetings at school.

CONCLUSION

Based on the data from the research and discussion that have been carried out, the conclusions can draw that distance learning activities using Edmodo learning media in 3T areas elementary schools are running effectively. This simple research shows that digital literacy can be built using online-based learning media.

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