

Utilisation of Quizlet App as a Student Performance Assessment tool by Teachers

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ABSTRACT

Background. Quizlet application for interactive learning used through online which can be used as an online learning media, which can be learned by teachers and students to increase vocabulary or also can make personal letters and official letters. It is useful to improve students' knowledge and skills in utilising Quizlet application as one of the applications in enhancing online learning.

Purpose. The purpose of this study was to determine the utilisation of the Quizlet application as a student performance research tool by teachers.

Method. This research uses quantitative methods, where data is obtained through interviews and distributing questionnaires.

Results. The results of this study explain that the utilisation of the Quizlet application is very positive in the teacher's assessment of a student's performance. By using the Quizlet application, it is very helpful for students in learning that is difficult to understand, so that it can improve the learning process optimally.

Conclusion. The conclusion of this study explains that Quizlet App can be used as a tool for assessing student performance by teachers in online implementation and can be used for language learning.

KEYWORDS

Quizlet App, tudent Performance, Utilisation

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INTRODUCTION

In 2020, the Indonesian nation was shaken by the covid-19 pandemic (A. Safril Mubah & Sarah Anabarja, 2020). This pandemic has greatly affected all activities of Indonesian society including education pendidikan (Bebbington & Unerman, 2018; Loey dkk., 2021; Walsham, 1995). Usually carried out in formal face-to-face education at school, it must now be limited due to the covid-19 pandemic (Z. Liu dkk., 2020; Pala dkk., 2020; Wynes dkk., 2019). To overcome these obstacles, the government decided to implement online learning (Kulal & Nayak, 2020; Lee dkk., 2018; Rodríguez-de-Dios dkk., 2018). There are challenges in implementing online learning without face-to-face meetings, one of which is that students do not understand how to complete the tasks given online by the teacher (Arulkumar & Vivekanandan, 2018; Hodge dkk., 2019; Iqbal dkk., 2019). The recovery period set by the teacher for online learning is very short. Students do not understand what the teacher is teaching, especially in the delivery of assignments sent online (Lo & Hew, 2020; Shen et al., 2019; Zhang et al., 2020).



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Therefore, a tool called Quizlet is needed to support online learning so that students can focus on learning and do online learning thoroughly.

Information and communication technology plays an important role in current and future activities, one of which is among the elements of education (Ding dkk., 2021; Fang dkk., 2018; Zhang dkk., 2020). One of the benefits of IT (information technology) in modern learning is the ability to carry out teaching and learning without the presence of students, that is, students can learn at different times and places and interact with students remotely (Brunner dkk., 2022; Farhoumandi dkk., 2021; Ünlü & Xanthopoulos, 2021). Since the development of this era, humans must explore science and technology (de Jonge dkk., 2018; Shannon, 2019; Simon dkk., 2018). One of the media available based on smartphones and used as a learning tool is the Quizlet application (Ganasan & Hashim, 2022). Quizlet is purpose-built learning and it is written by students in schools (Bucur dkk., 2020; Pearse Romera & Ruiz Cecilia, 2019; Wu, 2019). Quizlet is mainly used for language learning, but its functionality is not limited and can also be used in other subjects, teachers must create an interesting learning process by stimulating students to learn effectively and dynamically.

Student learning and teaching during this pandemic has many positive and negative aspects to it (Clabaugh dkk., 2021; Oliveira dkk., 2021; Savitsky dkk., 2020). This is certainly very disruptive to learning for students during the online learning process. During this time the role of teachers is very important, they must fulfil their professional duties, for example how to provide learning materials and how to monitor and ensure student activities are carried out. Learning media and applications are delivery devices for the physical integration and application of media and technology that have significant benefits to students (Dong dkk., 2021; Huang & Huang, 2018). Quizlet is an online application template that can be used to design school supplies. In this case, sometimes words are used according to context and other word choices related to foreign languages (Butler & Le, 2018; Lee dkk., 2018; Pan & Zhang, 2021). And more information and insights about vocabulary and other features. The researcher also defines that the role of students' interest in learning is very influential on students' achievement scores and learning outcomes, because students do what is interesting to them.

The Quizlet app is a free website that teachers can use to design learning materials (Hoffman dkk., 2019; Robertson, 2020). Quizlet can also be used and organised and developed to improve student performance in English (Wang & Lee, 2022; Yakin & Linden, 2021). The Quizlet app is also an application for creating games and learning methods in flashcard mode with matching answers and descriptions (Franco & DeLuca, 2019; Magen- Nagar dkk., 2019; Meier dkk., 2020). Quizlet app development also facilitates students' activities in online learning. During the learning process, students must be able to understand the lessons given by the teacher in the form of Quizlet application. So it can be used to find out the feelings and thoughts of students in using the Quizlet application. The use of Quizlet application also involves a lot of interest and process to complete the task given by the teacher, one of which is correct and good vocabulary.

The development of technology is currently very rapid, and technological advances are very beneficial for students, especially in the world of education (Epelle & Gerogiorgis, 2020; Oubibi dkk., 2022; Soukoulis & Bohn, 2018). With the help of this Quizlet application, students are more participated in the continuity of learning. Distance learning has many advantages, so online learning should not only replace traditional learning. This app influences students to develop their intelligence and practice language skills in the form of reading, speaking, writing and listening (Coon & Rapp, 2018; Zhao dkk., 2019). In addition, Quizlet supports multiple languages including typing in addition to most languages such as English, Spanish, French, Italian, German, Russian,

Japanese, Chinese, Korean, and Latin. However, with the application of such learning methods, students become more dependent on technology, assuming that the existence of technology, which is one of the determinants of the learning process.

Strengthening and improving student learning is in the hands of the teacher, a teacher who has his own role in pedagogical technology and which is applied in the teaching and learning process of students (Haley & Allsopp, 2019; Mendzheritskaya & Hansen, 2019; Nalipay dkk., 2022). Learning is a psychological aspect that a person experiences towards development, meaning that this factor is influenced by the state of physiological readiness and psychological maturity of students in the implementation of learning (Shone dkk., 2018; Zhao dkk., 2019). Students have an excellent opportunity for educational institutions to implement the use of quizlet applications in today's global era and enthusiasm, to arouse students' learning enthusiasm. So that students can learn independently and actively interact directly, the learning outcomes achieved by students in each subject are expressed as a number called the final learning outcome. To use the Quizlet app makes learning easier and makes it smartphone-based smart learning, and it is a free app that is easy to use for teachers and students.

Based on the results of research conducted by Fitri & Janattaka (2022) with the title of the use of the Quizlet application on the learning interest of grade 3 SDIT Darussalam students. Stating that Quizlet has the main function in it, namely the development of linguistic intelligence, and its function is not only limited to learning the vocabulary of a language, but this application is also suitable for various subjects, such as language preparation or the use of teaching materials. In addition, the Quizlet app is also convenient to use because it can be used anywhere and anytime. The app can also be used on laptops and smartphones. This means that students must know various theories about teaching and learning, because these theories often form the basis of teaching methods and methods for teachers as learning methods. Teachers find it easier to deliver material effectively and creatively, and learning becomes easy and fun even in the era of the millennial generation. The learning process and results can train four language skills, namely speaking, reading, listening, and writing. And the Quizlet application supports around 145 languages around the world, including Indonesian, Sundanese, Malay and Arap. This research also explains that the Quizlet application can be downloaded and installed on mobile phones so that students can enjoy interactive information through audiovisual means. With this application-based online learning media model, technology and web development can make it easier for students to memorise and know vocabulary that has never been heard or known, and many other features that facilitate the delivery of learning materials creatively. However, in this type of learning media application, the Quizlet application also requires guidance from the teaching staff in order to learn well in accordance with the objectives to be achieved.

Based on previous research, it can be said that there are differences and novelty included in this research. In this study, researchers put forward an innovation that is implemented in a web-based learning media system that is implemented through the Quizlet application and this innovation can be a place for problems in the application of distance learning methods. In this study, researchers also presented the results of research in the form of percentage graphs and analyses which included the effect of motivation to use the Quizlet application through a distance learning innovation system. And in this study provides information about the learning media model implemented through the Quizlet application. The use of Quizlet application can increase students' interest and motivation to learn, because a lot of the latest information is available through the internet. This method is very effective and efficient because in addition to learning personally with

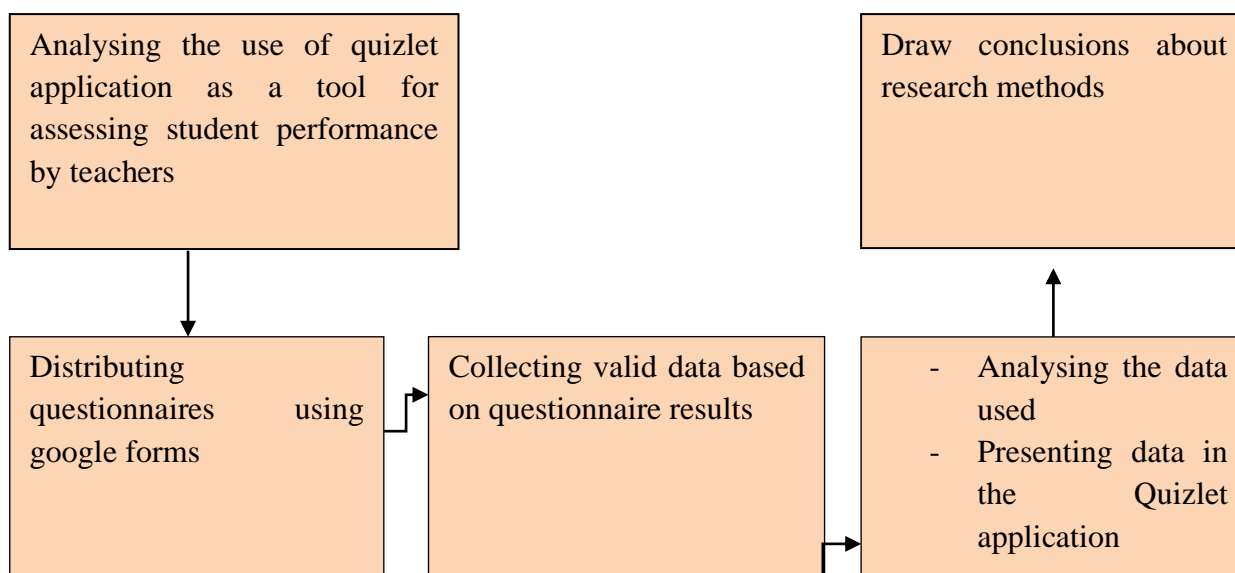
the teacher in class, students can also use the material provided using online wherever students want.

Based on the description above, the researcher is interested in exploring the extent to which student performance can apply the online application-based learning environment as a result of the use of the Quizlet application for assessing student performance by teachers. The purpose of this study is to find out more clearly how teachers implement the use of Quizlet application in learning and whether students can accept and use the application from teachers. The researchers hope that using this learning environment can encourage students to create an open and educated generation. This research is also important because teachers can implement a learning system that can improve student performance during the learning stage and support student learning achievement through the results achieved. In the future, the use of applications and learning environments will be expanded, and various creative activities will be carried out to stimulate students' interest, so that students have a passion for learning and a lot of inspiration.

The reason why the researcher chose the title of Quizlet application utilisation on student performance by teachers is to clarify the effect of application on students. The purpose of this study is to prevent a decrease in student performance in learning while doing distance learning and to find out how to improve learning innovation with the help of online search systems for vocational students. With this study, researchers can find out the results that students have achieved in the implementation of learning through this application and also in learning innovation implemented through Quizlet application-based learning media. Therefore, this research is very important to increase students' interest and motivation in order to maximise their learning time and still carry out learning activities in the classroom as usual.

RESEARCH METHODOLOGY

The research method used by researchers is a quantitative method using data collection techniques, namely surveys using questionnaires or surveys through the Google forms application (Karabulut-Ilgu dkk., 2018; Soukoulis & Bohn, 2018). Quantitative methods are researchers' efforts to obtain information using information in the form of numbers (Bakir dkk., 2020). Surveys were used because they fit some of the research objectives related to teacher and student responses about the Quizlet application used by some teachers in distance learning on the effect of student learning. The result of this survey method is a multiple data collection method by giving questions and answers to many people and responses. The purpose of this study was achieved through research from teachers of SMK Panca Karya (PAKAR) Sentul. The general view is to find the application of learning methods in the form of applications that cause changes in student performance by teachers. In this case, where researchers can find out the interest and forward the results of student performance. So that by doing this research can be obtained about the environmental effects of student performance in the Quizlet application.



The number of respondents to this questionnaire totalled 31 people, coming from students and teachers. The object of this study is the utilisation of the quizlet application as a student performance assessment tool (Garg, 2018). The method used to conduct this research is quantitative method. The technique used by researchers in data collection is to collect all measurable information results in the form of numbers. This research method uses analytical techniques, namely statistical techniques or what is called the method of collecting data through diagrams (Merrigan & Johnson-Davis, 2019). First of all, it is a simple way to present information and is easily understood by the reader. In this case, the reader will understand correctly and not be confused. Data analysis technique is a data processing process that involves learning, processing and modelling data that is useful for drawing conclusions. This method was chosen because this technique allows information to be validated and relevant by using numbers that are easy to find. solving the problem being studied.

This study requires researcher observation to get a realistic picture of the impact and influence of using the quizle app learning method (Y. Liu & Lee, 2022). Where students should be able to develop students' interest and learning outcomes by applying this learning method. Especially if using quantitative datasets. Thus, researchers can know in detail the development of these students. So the study conducted by this researcher is to conduct a detailed survey using a questionnaire or online via whatsapp media using a questionnaire created from google from which contains questions that answer questions about the utilisation of the quizlet application as a tool for assessing student performance in the application of the method of using the quizlet application and researchers get information from these respondents so that it can be a way to conduct research that is in accordance with the problem at hand.

RESULT AND DISCUSSION

The utilisation of technology in student performance can utilise learning media applications in the form of Quizlet. The advantages of technology in learning can benefit the performance of students by different teachers, so each student should be able to develop learning media applications. the development of learning environments and technology is planned according to pedagogical goals in such a way that the performance of students who want to learn is born. This learning environment helps students develop their vocabulary and learning idae. Based on the

development of the current learning environment, the researcher can observe that the learning environment and technology are tools that support learning, which also have great advantages and benefits for student performance in today's education world. This shows that the use of educational media is currently widespread to support the learning interests of average students at various levels of education, especially at SMK Panca Karya (PAKAR) Sentul.

No	Question	Answer			
		Strongly agree	Agree	Disagree	do not agree
1.	Can the Quizlet application help students in making personal letters.	23%	74%	0%	3%
2.	The Quizlet app is a new challenge for teachers and students.	23%	68%	7%	2%
3.	Whether the Quizlet app can help teachers and students	32%	58%	7%	3%
4.	There is no learning by the Quizlet application	16%	39%	23%	22%
5.	The usefulness of the Quizlet app can be to increase vocabulary and make letters	32%	65%	0%	3%
6.	Quizlet application is very useful for students and teachers	32%	58%	7%	3%
7.	Quizlet app is interesting for students and teachers.	36%	61%	3%	0%
8.	Does the Quizlet app benefit students and teachers	36%	55%	2%	7%
9.	Does the quizlet application affect students and teachers	32%	58%	3%	7%
10.	Does this Quizlet app utilise a lot of data packages?	16%	32%	36%	16%
11.	Teachers and students are easy to use this Quizlet application	25%	68%	7%	0%

12.	The material contained in this Quizlet application can make teachers and students make letters	23%	65%	10%	2%
13.	The material contained in this Quizlet application has new vocabulary	19%	74%	7%	0%
14.	Quizlet application is an application that is easy to access	29%	68%	3%	0%
15.	The utilisation of the use of the Quizlet application makes teachers and students very difficult	19%	27%	24%	30%
16.	The vocabulary provided by the Quizlet application is very accurate	23%	68%	7%	2%
17.	Quizlet application is very easy to make letters for teachers	16%	71%	3%	10%
18.	Quizlet application is very necessary for teachers and students	29%	61%	7%	3%
19.	For those who use the Quizlet application must be downloaded	23%	65%	0%	12%
20.	Quizlet application can also be used for playing or games	26%	52%	19%	6%

Table 1. Quizlet investigation results

The table above contains several questions related to the creation of Quizlet applications for vocational students. Several questions appear in the table that can help researchers investigate the creation of learning applications using Quizlet. There were 20 questions about the benefits of the Quizlet app that teachers taught to students. The question about using Quizlet app has a positive effect on improving students' learning, 23% strongly agreed. The table above shows that the use of Quizlet application can increase curiosity and dare to express opinions without looking down on others, with 74% fully agreeing with the question. The research also saw the results of the Quizlet application which was very interesting and easy to understand, students with a percentage of 23% strongly agreed with the statement. Coupled with the question about the moving image application that learning is fun and helps improve student performance, so the proportion of 32% strongly

agreed with the statement. The researcher also examined the Quizlet application to improve the use of the application, with 39% of the category strongly agreeing with this statement and the table above also discusses many characteristics of the Quizlet application that improve student performance to improve learning, with a percentage of 65% strongly agreeing with the statement.

Furthermore, questions 3, 7, 10, 11, 16, and 18 contain that machine learning can increase students' learning potential to achieve superior achievements, can be applied at various levels of education, help students solve various problems that occur during the lecture process. And also

The researcher also saw the use of the Quizlet app as one way to facilitate student performance, with a percentage of 32% strongly agreeing with the statement. The following question about using the Quizlet app can teach students to justify their answers so the percentage strongly agreed with 36% of the table above illustrates the material that is in line with the learning delivered by the Quizlet app, with a percentage of 32% strongly agreeing. The researcher also discussed the Quizlet application which is very accurate and reliable with the "strongly agree" category as much as 19% the table above includes the low-impact Quizlet application, with a percentage of 16% strongly agreeing with this statement. the table above also includes the Quizlet application which is difficult to download, with a percentage of 23% strongly agreeing with this statement.

The researcher also examined topics related to utilisation through the Quizlet app with 74% of the same class. The next question about using the Quizlet application can teach students to justify their answers, with 71% agreeing. The table above also explains that the material contained in the Quizlet application is very suitable for the learning style of students reading scientific articles and the percentage of 68% agreed. Researchers also discussed the material contained in the Quizlet application that can make students reach a percentage of agreement of 65%. The next question looks at the many features of the Quizlet app that encourage student performance in their learning, with 58% achieving acceptable student performance scores. The table above also explains that learning through the Quizlet application and helps improve student performance to achieve a passing rate of 55%. Researchers also see the use of the Quizlet application as very interesting and easy to understand by students with a 52% share in the same category. In addition, the table above explains that the use of the Quizlet application can increase curiosity and dare to express opinions without misleading others, with a percentage of 39% agreeing. The table above also explains that the use of the Quizlet application has a positive effect on improving student performance, 32% agree. Then the question about the Quizlet application has a negative effect, 27% agree.

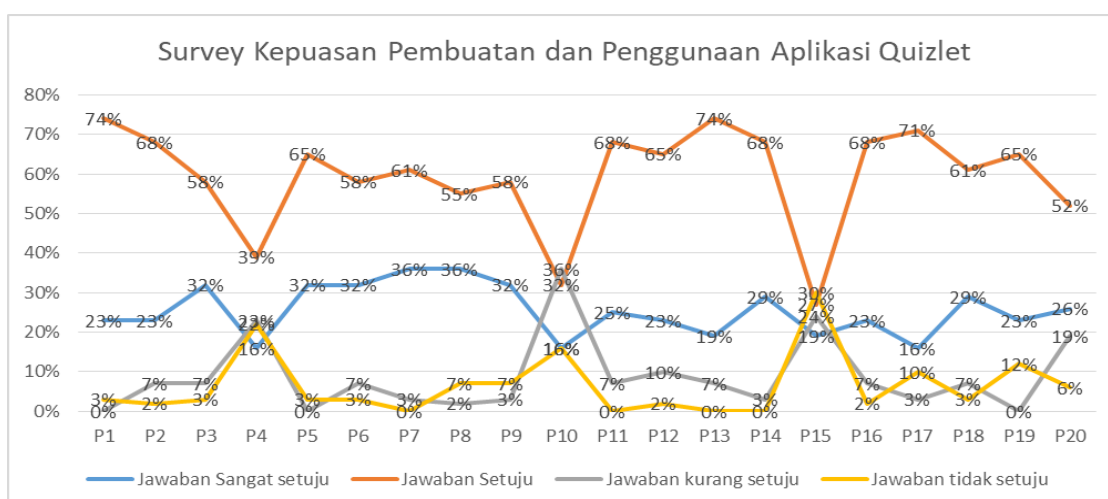
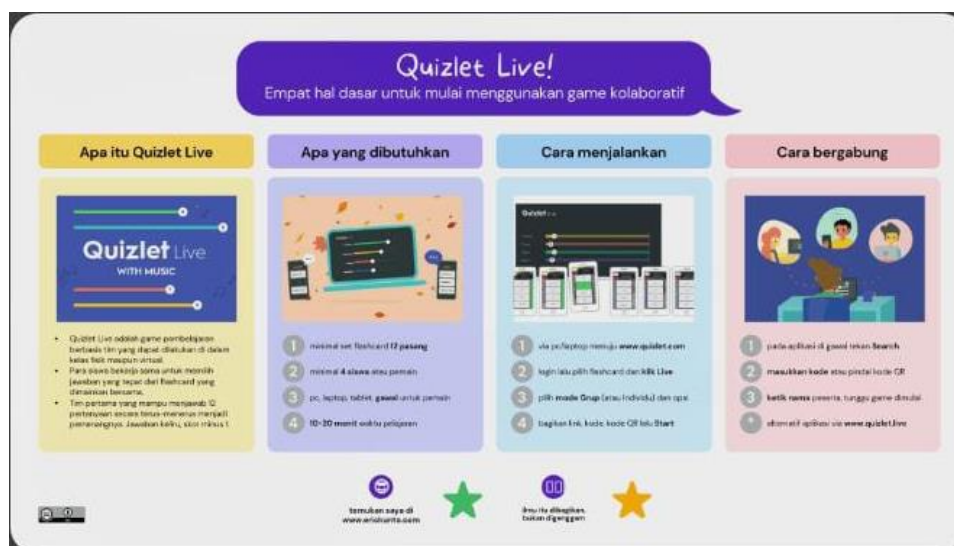


Figure.1 Quizlet app creation and usage satisfaction survey

The image above shows the graph of the Quizlet app. The details of the results of the question testers on Quizlet are as follows: There were 31 teachers and students who were the target of the research resources made by the researcher. In this study, researchers asked 20 questions to test the ability and knowledge of teachers and students in answering questions from the Quizlet application. The highest student research results obtained a percentage of 74%, based on the results of this study obtained the category of choice of agree (S). The second highest research result obtained a percentage value of 71% based on the results of this study obtained the category of choice agree (S). In the third highest research result obtained a percentage value of 68% obtained by the category of choice agree (S). The lowest Quizlet survey results obtained a percentage value of 27%. In the second lowest survey result, a percentage value of 32% was obtained with the category of agree choice (S). This marks the approved category as the highest procurement category.

The detailed results of the research trial results from the Quizlet application are: the percentage of choices in the agree section is 74%, the strongly agree category has the highest percentage of several existing categories. While the lowest percentage in the strongly agree category is 16%. In the second percentage acquisition with the category agree with the highest percentage acquisition of 71%, while the lowest percentage acquisition in the approval category is 27%. The disagree category has the highest level of performance data collection at 30%, while the lowest disagree category with a value of 2%. And the collection of the last survey results in the disagree category which obtained the highest score of 36%, while the lowest disagree category with a percentage value of 2%. Based on the overall results of the data entered in the survey, educators and students who disagree with the questions in the Quizlet application get the highest score with a percentage of 30%. While educators and students who disagree get a value with a percentage of 2%.

**Figure.1** Image of the Quizlet app

The picture above shows the Quizlet online learning media application. The format of this application is in the form of questions related to science, especially education. This learning media is a tool that can be downloaded and carried by android users wherever they go. Quizlet application learning media questions are usually addressed to students. The use of the Quizlet application has a big impact on students, especially vocational students, because the online Quizlet application can

help students answer many questions related to what they are learning. This online survey can also help teachers find out how well students understand the material taught online. Quizlet can also make learning fun or interactive as it helps students gain more knowledge about foreign language vocabulary, for example English. Quizlet is also known as an online app that lets you take tests, answer quiz questions or edit questions to make them look more interesting.

The characteristics of this learning environment are that the Quizlet application material is very easy to see without further explanation, the purpose of the Quizlet programme is very clear, the instructions for use are fully explained, and the learning process is also very clear. Quizlet apps are needed nowadays because teachers and students are more familiar with the internet than answering textbooks. Teachers and students who use Android will be helped in learning with this Quizlet, especially teachers or lecturers in learning. This Quizlet application has its own appeal for students and teachers. The positive effect of the Quizlet app is that students find it easier to find lessons and stay up to date. Therefore, students and teachers must know how to use Quizlet properly and correctly. Educators can use the quizlet application in the following way: First, the teacher must log in to the account with Google www.quizlet.com, then click login, then the teacher writes as the first step of the teacher using quizlet, then the teacher fills in the personal information completely such as username, email address and especially password when the login text is displayed in the quiz programme, the teacher can ask to load the quiz text and the word create quiz will appear. And for students, here's how to take the quiz The first step is to ask students to enter the code and name of the game. The joined students will appear on the teacher's laptop and the quiz can start when all students have joined. After that, the teacher can simply click Start and the online survey can begin.

The results of this study show the effect of using the Quizlet app in increasing student engagement and interest in school. Quizlet is used to test how well students understand their learning skills. With the help of this app, teachers can also easily test how well a student understands what has been learnt. The advantage of this Quizlet application is that it is very easy to carry anywhere and run at any time. Most importantly, this programme is very convenient to use. Using Quizlet makes students happy and interested in taking tests that were initially not enthusiastic about taking tests after learning the Quizlet application. The Quizlet media programme has some disadvantages, namely dependence on the internet network. If you have a good internet connection, the Quizlet application also works well, but if you have a bad internet connection, the Quizlet application will not work properly and cannot check the answers filled in automatically.

By conducting research, it is known that many who study this programme consist of students who like this programme in their learning activities. This research method uses quantitative methods where data is collected by distributing questionnaires to obtain true and valid data. With this quantitative method. This method can also make it easier for researchers in their academic assignments to create tables, line charts or graphs with clear citations and sources based on the location studied. The advantages of this quantitative method are that the results obtained are accurate and reliable when used according to predetermined rules, this quantitative method can simplify complex problems, and also the information obtained is clearer and very detailed. And the disadvantages of this method are that the reality of events is unclear, assumptions cannot be guaranteed, it cannot be used to analyse small samples, data collection assumes the highest value, and this method is not automatically subjective.

Using this Quizlet app is a testament to student co-operation and the joy of learning in the process. This Quizlet app is also great for distance learning where you only need to enter an email address. The Quizlet app is a free app designed to be as easy as possible for students and teachers to

use. The quiz question types are multiple choice, fill in the blanks, tick the boxes and select. In a Quizlet application, the number of live quiz participants can reach hundreds or even 700 people. The purpose of this research is to facilitate teacher and student learning. In some vocational schools this application has been used and implemented, but there are educational institutions that do not use the Quizlet application but still use manual learning. Generally, nurseries that do not use Quizlet are rural nurseries that are not interviewed with the latest technology. And the performance institutions of students using Quizlet application in urban areas are explained by technology. Therefore, it is expected that the government can provide good facilities to educational institutions that are not familiar with the latest technology and know the application of the Quizlet application for learning. Therefore, the researcher hopes that future researchers can adopt this Quizlet application as an online Quizlet application resource so that they can easily access this resource according to current developments.

CONCLUSION

Based on the discussion on the above research, it can be concluded that the utilisation of Quizlet application as online learning can be a reference for students to facilitate the work of teachers and students. The results of the research survey of 31 respondents are equipped with a diagram that explains what percentage of students strongly agree, agree, disagree, with the online survey learning environment, as well as a table with arguments related to the questions tested by teachers and students. Therefore, based on the results of the research on the performance of the online survey learning environment, it is very suitable to be used as a learning tool that can help students understand lessons and improve student performance in learning.

AUTHORS' CONTRIBUTION

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.

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