

<https://journal.ypidathu.or.id/index.php/ijlul/>

P - ISSN: 3026-7102

E - ISSN: 3030-8372

## Utilization of Quiz Kreator in Student Achievement Assessment in Elementary School

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### ABSTRACT

**Background.** The world of education is inseparable from various learning components. The utilization of technology cannot be separated from the world of education. One of them is the use of Quiz Kreator for student achievement assessment in elementary schools. Quiz Kreator is one of the online applications used to create quizzes, including multiple choice quizzes and true false quizzes.

**Purpose.** This study aims to determine how student achievement in elementary schools after using the Quiz Kreator application in the learning process.

**Method.** The researcher used quantitative research methods, namely by distributing questionnaires to elementary school students. The questionnaire was distributed online.

**Results.** The results showed that the use of Quiz Kreator in assessing student achievement in elementary schools has a positive impact on students. The use of Quiz Kreator as an assessment tool that is well designed and relevant to the material being taught, can improve student achievement. Quiz Kreator can provide assessment results automatically and accurately. This can also help teachers in assessing student achievement more objectively.

**Conclusion.** the use of Quiz Kreator in assessing student achievement in elementary schools can be utilized well. The use of this Quiz Kreator application can improve student achievement in the learning process.

### KEYWORDS

Elementary School, Quiz Kreator, Student Achievement

### INTRODUCTION

Primary school is the level of education that students take after studying at the kindergarten level (Lu dkk., 2019; Schneider, S. L., & Council, M. L, 2020). However, there are also many children who go directly to elementary school without attending kindergarten (Abu Elnasr E. Sobaih, Ahmed M. Hasanein, Ahmed E. Abu Elnas, 2020; Adeeb Derakhshan, 2019; A.M. Chavira, 2022). However, there are also many children who go directly to elementary

**Citation:** Chairuddin, Chairuddin., Hidayat, R., Kadayloding, K., & Toepak, P, E.. (2024). Utilization of Quiz Kreator in Student Achievement Assessment in Elementary School. *International Journal of Language and Ubiquitous Learning*, 2(1), 314–326.

<https://doi.org/10.70177/ijlul.v2i2.975>

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**Received:** May 31, 2024

**Accepted:** June 15, 2024

**Published:** June 31, 2024



school without attending kindergarten (Ahshan, 2021; Lu dkk., 2019). At this level students begin to recognize letters and numbers. At this level students also begin to be taught to spell the letters of the alphabet until students are able to read fluently. Students are also introduced to numbers and taught to count correctly. Teachers have a very important role in education at the elementary school level. For the smooth learning process of students, teachers are required to be more creative in teaching material to their students. That way the teacher can make students more enthusiastic about learning and students will easily understand the material being taught.

The level of creativity of teachers in teaching students in elementary schools can be done by following technological advances (Afsoon Asadzadeh, 2020; Lu dkk., 2019). Teachers must be able to choose learning methods that match the interests of their students (Khosravi dkk., 2019). In addition, teachers must also be able to utilize technological advances to support the learning process of students in elementary schools (Ahsan Ahmad, 2022; Lu dkk., 2019). In addition, teachers must also be able to utilize technological advances to support the learning process of students in elementary schools (Lu dkk., 2019; Nayak dkk., 2022). If that happens, it is certain that students will not be able to accept the material delivered by the teacher properly and optimally. If students cannot receive material well, then the learning process will be in vain.

The development of technology is a familiar thing in modern times. It cannot be denied that technology plays an important role in the learning process, be it at the elementary, secondary, high school or college level (B. Chobthamdee, 2022). In modern times, technology has advanced and developed rapidly. Especially in the world of education, with the existence of technology, the world of education in Indonesia can be more advanced and developed than before (Permana dkk., 2019). In this modern era, there are many schools that utilize technology to support the learning process (Kim & Kim, 2021). Not only middle and high schools, but elementary schools have also utilized technological advances in the learning process. Elementary schools in Indonesia already use quite sophisticated technology in the learning process.

There are many technologies that can be utilized to support the learning process (Nuria Hernández-Sellés, 2019). Karena di zaman yang sudah maju ini sudah banyak ditemukan jenis media pembelajaran yang can be used in the learning process both at the upper secondary level and elementary school level. There are many features that can be used in the learning process (Jiehao dkk., 2020). These features are both online and offline based (Allan Ulitin, 2022; Vania Diah Cahyarani, & Doddy Iskanda, 2021). However, more schools use online-based features than offline. Because this online-based feature is more diverse in type and also more interesting, so that it can make students' enthusiasm increase to learn (Burns dkk., 2021; Y. Wang dkk., 2019). That way students will easily accept the material taught and will improve student achievement at school. With the number of students who excel, it will make the quality of education in Indonesia even better.

One of the online learning media that can be used to support the learning process in Indonesia, especially in elementary schools, is by utilizing quiz kreator media (Ahsan Ahmad, 2022; B. Chobthamdee, 2022; Vania Diah Cahyarani, & Doddy Iskanda, 2021). This media can be used by students ranging from elementary, middle, high school and college levels. This quiz creator is one of the applications that are widely used by teachers in the learning process (Hispagnol dkk., 2023). This quiz creator is an interactive learning media in the form of questions or questions that are presented in the form of a quiz using an interactive quiz maker application (Nuria Hernández-Sellés, 2019). By using this application, students no longer need to use stationery media to do a practice question given by the teacher or in the form of assessment and evaluation of learning

material (Cho & Park, 2022). This application can also directly display the results or scores obtained by students when conducting the assessment.

Quiz creator can also be utilized by using google forms on mobile phones only (Long dkk., 2019) (Amani dkk., 2019). That way it can be seen that this quiz creator is very easy to use and does not require special media for its use. It is also clear that it does not rule out the possibility that this quiz creator can be used by students in elementary school level education. Because at this elementary school level students have been taught how to read and write so it is certain that students at this elementary school level can also use this quiz creator media in the learning process (Child dkk., 2019). That way students will get used to using technology and will not find it difficult to keep up with technological advances that are increasingly advanced and developing every time. Because students have been trained in utilizing technological advances especially in the learning process.

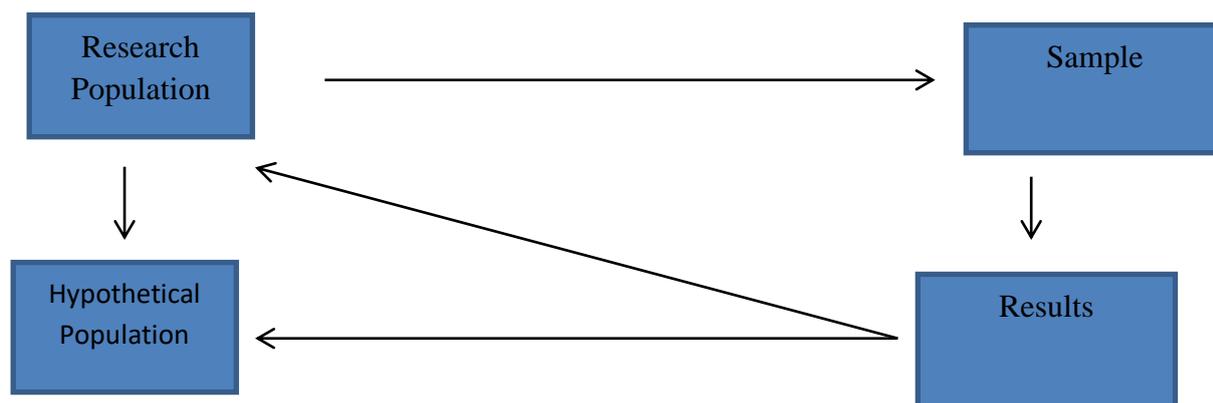
The existence of quiz creators in this learning media will be able to improve students' ability to utilize technology (Arleo & Dodelzon, 2020; the Innovation Center for Educational Resources, Kyushu University Library, Kyushu University, Fukuoka, Japan dkk., 2019). That way students will be able to improve their achievements, especially in the world of education. because with the use of this quiz creator, students will find it easier to conduct an evaluation of each learning material (“A Preliminary Field Study of Antifouling Paint Performance After Short Exposure in Mandara Bali, Indonesia,” 2021; José dkk., 2021) . In addition, this quiz creator application can also make it easier for teachers to present a form of exercise for their students (Morres dkk., 2019). Because with this quiz creator application, the teacher only needs to enter the questions and answers, then this application can input how many scores are obtained by students (Di Giacomo dkk., 2021). That way, students can easily find out the extent of their understanding of the learning material. Therefore, students can evaluate themselves to study harder to improve their abilities and achievements at school.

Students will also be more eager to learn because this application can be used easily and does not require special skills in its use (José dkk., 2021). However, teachers must still pay attention to the alignment of the material they deliver with the evaluation conducted using this quiz creator. If the material and questions given in the evaluation using this quiz creator are aligned, it is likely that students will be very easy to do the evaluation and will get good scores. That way student achievement in elementary schools will continue to increase and teachers will also find it easier to evaluate their students. Because the more often the evaluation is carried out, the more often students will also evaluate themselves by seeing the extent of their ability and understanding of the material, so student achievement will continue to increase.

## RESEARCH METHODOLOGY

This study uses a descriptive quantitative research method that aims to determine the response of elementary school students in using quiz creators in assessing their achievements at school (José M. Juárez-Barrientos, 2019). This descriptive quantitative research is research that summarizes or explains the results of data obtained from documentaries either through direct question and answer, through google form or through direct observation of the use of quiz creators in terms of improving student achievement in elementary schools as conducted by researchers (Alizadeh dkk., 2020; Piro dkk., 2019). This quiz creator application has been widely used in the learning process at school, not only at the higher education level, at the elementary school level there are also many who use this quiz creator application in the learning process, especially for assessing student achievement. To get data about the use of quiz creators in improving student achievement in elementary schools,

researchers used google for which the questionnaire was distributed to several elementary schools in Kolaka to find out the response of students to the use of this quiz creator application.



**Table.1** Quantitative research population and sample

The time and place of this study were elementary schools (F. Wang dkk., 2020). The object of this research is the feasibility of utilizing the quiz kreator application in improving student achievement in elementary schools. The method used by researchers is quantitative method. The place of this research was conducted in several elementary schools in Kolaka whose purpose was to find out the response of students in using this quiz kreator application in the learning process, especially its utilization in improving student achievement in elementary schools. Data was obtained by distributing questionnaires to elementary school students in several elementary schools in Kolaka to find out how many percent of the feasibility of this quiz kreator application can be utilized in improving student achievement (Cao dkk., 2019). Researchers also prepare in advance the objects to be observed, and determine the purpose of the problem to be created. For example, in research on students of several elementary schools in Kolaka.

The technique used by researchers in this study is to collect data in the form of numbers that are measured, calculated and compared on a statistical scale. The data obtained from the results of respondents distributing questionnaires is a quantitative data analysis technique. For example, such as this data collection process based on the results of the respondents and continued by making objects and calculating hypothesis testing from the data obtained. This quantitative research is also complemented by statistical tests, namely in the form of inferential statistical tests which are prescriptive in the form of being applied to describe data by describing important data, namely this parametric statistic which has power in research if taken from nominal data and ordinal data from the sample data found. In addition, identification of conclusions from the results of the analysis and their relationship to hypotheses and research questions. Next, the response questionnaire was recorded in the form of a google form and then distributed to students in elementary schools.

## RESULT AND DISCUSSION

In the current era of globalization, the world of education is an important spotlight for society. Because students are the next generation of the nation. With qualified students, a country will progress and have a smart society. A country with a smart society can make the country keep up with the times and technology that is increasingly advanced and developing. In this modern era, technology can no longer be separated from people's lives. Many things can be done by utilizing technology. Not only in society, but in the world of education it cannot be separated from

technology. Schools in Indonesia are already using technology that is developing today to support learning activities. Not only schools in urban areas, schools in rural areas have also utilized technological advances. And also not only at the higher education level, even the elementary school education level has also utilized many of these technological advances to support the learning process of its students.

At the elementary school level, not all schools have used sophisticated technology in the learning process. Elementary schools also do not use technology that is difficult to use for students of elementary school age. However, the use of technology with the use of applications that are not too complicated, many elementary schools in Indonesia have begun to use it in the teaching and learning process. Like the utilization of the quiz kreator application in learning. This application is an online-based quiz and question that can be used by elementary school students because the use of this application is easy and not difficult. Elementary school students can also evaluate the learning that has been learned using this quiz kreator application. That way, students can find out the abilities they have in a subject. This application is also in great demand by students and teachers because of its practical use and can facilitate the work of teachers in teaching students. In addition, this application can also improve student achievement in learning and can also train students to keep up with increasingly advanced technological developments.

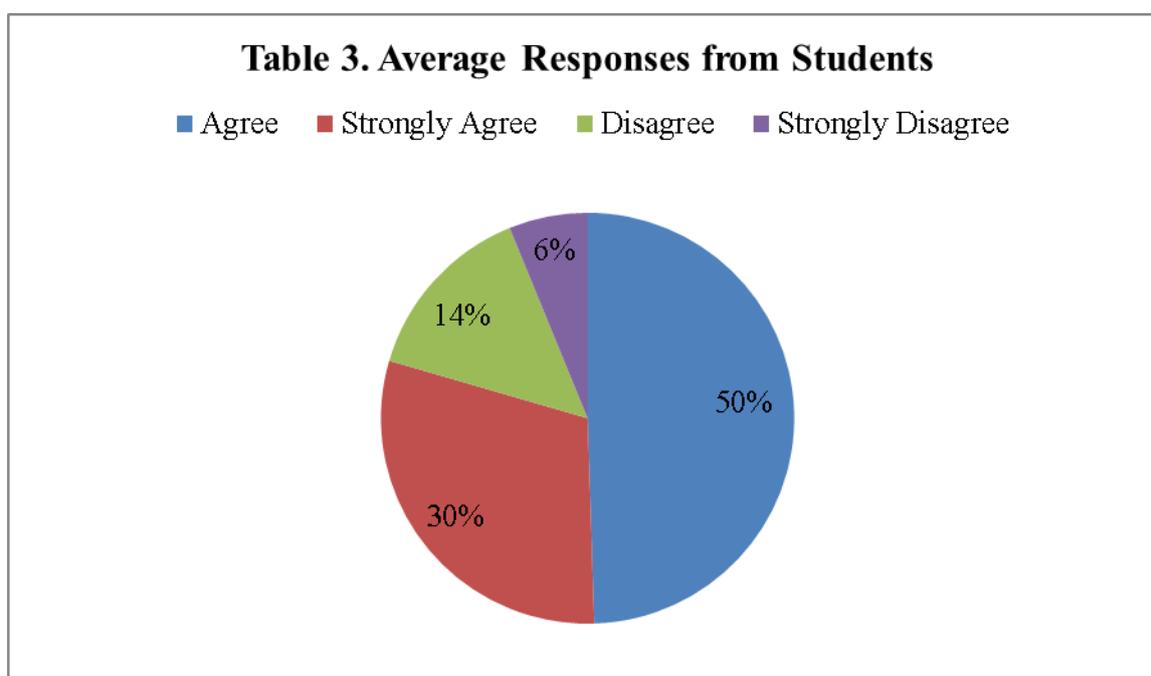
This quiz kreator application is also widely used by students at the secondary education level and even at the college level. Besides being easy to use, this application also provides accurate results in the assessment and evaluation carried out by students. With the use of this quiz creator application, teachers are easier in making questions to evaluate their students. In addition, students are also easier to work on evaluations given by their teachers on a lesson. By using this quiz kreator application, students do not need to use a pencil to circle the answers to their evaluation questions. Teachers also do not need to bother checking each student's answer sheet because this quiz kreator application can immediately assess the answers filled in by students when the evaluation is carried out. The results obtained from the quiz kreator application are also accurate and can be obtained immediately after students have finished working on the evaluation questions. That way, the enthusiasm for learning of students also increases because students immediately know the results they get after evaluating a subject.

No	Question	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The quiz kreator application can be utilized well in the world of education	45,7%	52,2%	2,1%	0%
2.	The quiz creator application can already be used at the elementary school level	30,4%	58,7%	6,5%	4,4%
3.	The quiz creator application can increase students' enthusiasm for learning	39,1%	52,2%	4,35%	4,35%
4.	The quiz creator application can make students lazy to learn	10,9%	21,7%	47,8%	19,6%
5.	Quiz creators make it difficult for teachers to explain lessons	15,2%	19,6%	52,2%	13%
6.	Quiz creator makes it very easy	28,3%	69,6%	0%	2,1%

	for teachers to teach.				
7.	Quiz creator has many quizzes that make students excited to learn.	41,3%	52,2%	3,6%	2,9%
8.	The features contained in the quiz creator make students bored of learning	10,9%	23,9%	54,3%	10,9%
9.	Quiz creator will have many positive impacts on students	34,8%	56,5%	4,35%	4,35%
10.	Quiz creator has many negative impacts on students.	13%	17,4%	54,3%	15,2%
11.	Teachers must pay attention to the suitability of quizzes with learning materials	43,5%	50%	3,9%	2,6%
12.	Teachers do not need to pay attention to the material displayed in the quiz creator	10,9%	26,1%	39,1%	23,9%
13.	Students must pay attention to the directions from the teacher in using the quiz creator application.	34,8%	58,7%	4%	2,5%
14.	Students can use quiz creator to evaluate their learning.	37%	56,5%	2,9%	3,6%
15.	Quiz creator can be easily used by students	26,1%	71,7%	0%	2,8%
16.	With quiz creator can improve student achievement in elementary school	30,4%	60,9%	6,5%	2,2%
17.	The quiz creator application can make students more creative	30,4%	67,4%	0%	2,2%
18.	The quiz creator application can make students easy to keep up with technological advances	45,7%	52,2%	0%	2,1%
19.	The use of quiz creators in schools will improve the quality of the school.	37%	52,2%	6,5%	4,3%
20.	The quiz creator application can help teachers in conducting assessments for students	34,8%	60,9%	2,15%	2,15%
21.	The quiz creator application has an important role in the world of education	30,4%	58,7%	6,5%	4,4%

**Table 2.** Primary School Students' Response To The Utilization Of Quiz Creator.

Based on table 1 above, it can be seen that the data obtained illustrates that most students choose to agree in the utilization of this quiz kreator application can be utilized properly in the teaching and learning process in elementary schools. Students also chose to agree that teachers must pay attention to the material that will be displayed in this quiz kreator application with the material being studied by their students. Teachers have a very important role in directing students to use this quiz kreator application so that students do not greet in using this quiz kreator application. Many students disagree that the use of this quiz kreator application will make it difficult for students in the learning process. Although at the elementary school level, the use of this quiz creator application is considered to be able to be used well in improving student achievement in learning. In addition, this quiz kreator application is easy to use by elementary school students and many interesting features that make the enthusiasm of elementary school students increase in receiving knowledge from their teachers. That way, schools that use this quiz kreator application in the teaching and learning process and evaluate the assessment of a subject can improve the quality of the school. This can be seen from the results of several students who filled out questionnaires about the use of this quiz kreator application and received the data presented in table 2.



**Table. 3** Average Responses From Students

Based on table 2 above, it can be seen that the highest percentage is students who choose to agree with 50%. That way, it can be concluded that the utilization of the quiz kreator application in assessing student achievement in elementary schools can be utilized properly. Thus, it can be seen that education and technology cannot be separated from one another. Education and technology are two things that go hand in hand and are interrelated with each other. The world of education without technology will be in vain because if it does not use technology, students will still not be able to keep up with the times, where in modern times technology is an important thing to know and follow its development. With the help of direction from their teachers, students in elementary school can easily use this quiz creator application in the teaching and learning process. Students at this elementary school level will also increase their enthusiasm for learning because this quiz creator

application has interesting features and can be used in lessons. That way it is clear that student achievement will increase by using this quiz kreator application.

When teaching and learning activities take place, the quiz kreator application can be used, especially when evaluating learning material. Because by using this quiz kreator application, students do not need to fill in the answer sheet manually, students can just read the questions and click on the answers that they think are correct and are already available directly in this application. By using technology such as computers in schools, students can use them to learn using this quiz kreator application. Because actually students in elementary school are still relatively lazy to write, students prefer to just read the questions and choose the correct answer according to them without having to spell out the answers on the answer sheet paper. If with this quiz kreator application students can more easily and enthusiastically work on their learning evaluation questions that are practically available in this application. In addition, the scores obtained by students when working on their evaluations can immediately appear at the end of the students doing their assignments. Thus, teachers can also easily input student grades without having to review and check one by one first because student grades have automatically appeared in the application and the teacher only has to input the grades.

From table 2 above, it can also be seen that only a few students chose to disagree, namely only 14%. Very few students disagree that this quiz creator application will make it difficult for students and teachers in the learning process. There are also many students who disagree if this quiz kreator application can be used properly in assessing student achievement in elementary schools. It can also be seen that students disagree with the statement that this quiz creator application can make students lazy to learn. In addition, there are also many students who disagree that this quiz creator application has many negative impacts on elementary school students. Because then it can be ascertained that this quiz creator application can increase students' enthusiasm for learning and have a positive impact on students. It can also be ascertained that this quiz creator application can increase student creativity in using technology and combine it with education. With this quiz kreator application, students can also keep up with technological advances that are increasingly developing in the world of education today. The features contained in this quiz kreator application are also interesting and numerous so that they can increase students' interest in learning. The following is an example of a picture of the features contained in this quiz kreator application.



**Figure 1.** Image Above is One Example

The image above is one example of a feature contained in the quiz creator application. This feature can be used when conducting an assessment or evaluation of certain material. The feature contains a quiz in the form of questions and uses a time limit to do it. That way students can train their speed and accuracy skills in answering the questions given. Questions that use this time limit can also sharpen students' brains to work and grasp something quickly, because with this time-limited question, students are required to answer the question before the time runs out. That way students will work hard to find the correct answer to the question. In addition, this feature can also save time for quizzes or evaluations because of the limited working time, so that no students waste their time pensively thinking about answers. In addition, this feature also makes it easier to analyze student data and scores when working on evaluations. That way, the teacher's work is not too heavy when evaluating the learning process.

This quiz creator application also trains teachers to become a professional and qualified teacher in teaching students. The role of the teacher is also very important in using this quiz kreator application, especially its use by elementary school students who are still very easy to be influenced by technology. Direction from the teacher is needed so that students do not use this quiz kreator application incorrectly. A teacher must first understand the application that will be used in the teaching and learning process. The teacher must master the application he uses and pay attention to the suitability of the material he explains through this quiz kreator application. Quality teachers are also inseparable from the use of technology in the process, as teachers who will teach many things to their students, teachers are required to be able to keep up with technological advances and be able to teach their students. Schools are also required to facilitate schools with adequate technology such as computers in schools that can be utilized by teachers and students. That way the school can also improve the quality of its school.

This quiz kreator application can also be implemented remotely, because the quiz is based online. So if there are students who are unable to come to school, then the teacher can take an alternative by utilizing this quiz kreator application. That way students who cannot come to school will not miss the learning material because the teacher can provide questions or in the form of interesting quizzes about the learning through this quiz kreator application. So, students will be able to understand all learning materials even though there are times when they cannot attend school to follow the learning process. In addition to the implementation of distance learning, this quiz kreator application can also be used to carry out end-of-semester assessments. Where usually the teacher will be trapped in making exam questions then also have to be printed and distributed to students to do, students also have to rewrite the answers on other paper which will spend more time. By using this quiz creator application, everything can be overcome, the teacher only has to make questions without having to print them and the students also only have to choose the correct answer without having to rewrite the answers on the answer paper, besides that it is also more time-saving.

## CONCLUSION

Based on the data that has been obtained and the results that have been described, the author can conclude that indeed the world of education cannot be separated from technology. The increasingly advanced technology demands that the world of education also follow it, it is impossible if students can directly follow technological developments without going through the learning process first. The learning process cannot be separated from the use of technology in order to achieve maximum results. Direction from teachers or educators is needed in the learning process of students, especially in the use of technology. Teachers have a very important role in guiding students in learning to use technology so that students do not make mistakes in using technology.

Schools that use technological advances in the learning process will be able to improve the quality of their schools. Because in Indonesia itself, almost all schools utilize technological advances in the learning process. Be it at the college level, secondary level, even schools at the elementary level have utilized technological advances,

One of the technologies that can be used in the learning process, especially for elementary school levels, is the use of the quiz creator application. It can be seen from the data that has been collected through a survey that the author conducted by distributing questionnaires about the utilization of this quiz kreator application. Where this questionnaire is addressed to elementary school students, from the results obtained, the author can conclude that the use of this application is highly approved by students in the learning process. This application is approved by students to be able to improve student assessment even though they are still at the elementary school level. Students also agree that this application can increase student interest in learning because there are many interesting features that can be used by students to assess or evaluate material. In addition, students also agree that using this application can make it easier for both teachers and students in the teaching and learning process. Because this application can directly input student grades by itself, so this application is approved to make it easier for teachers and can improve student achievement in learning.

#### **AUTHORS' CONTRIBUTION**

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

Author 2: Conceptualization; Data curation; In-vestigation.

Author 3: Data curation; Investigation.

Author 4: Formal analysis; Methodology; Writing - original draft.

Author 5: Supervision; Validation.

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