Liveworksheets Analysis as an Online Student Worksheet Assessment in the 21st Century Era

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Abstract. The development of information and communication technology that occurs today has had an impact in various fields, one of them is the field of education. One of the ways to integrate technology in learning is through online quizzes. It is used by teachers as an interesting evaluation tool for students. This study aims to determine student perceptions of the liveworksheets platform. This research is a qualitative descriptive study using the questionnaire method to (1) identify the difficulties experienced by students in using the liveworksheets platform and (2) describe students' perceptions of the liveworksheets platform as a learning evaluation tool. The subjects of this study were elementary school teacher education students as prospective teachers in the current digital era who were taken using a random sampling method. Data analysis in this study uses data classification methods and provides an interpretation of the data obtained. The results of the study show that the live worksheets platform is an effective evaluation tool and can help the learning process. The live worksheets platform is an evaluation tool that can increase student motivation and can be used in various learning strategies in today's digital era.

Keywords: liveworksheets, digital era, evaluation tools

1 Introduction

The rapid development of technology provides various influences that cannot be avoided by various fields, especially in the field of education. Global demands at this time require the world of education to always adjust technological developments as an effort to improve the quality of education by integrating its use into the learning process (Budiman 2017). The industrial revolution 4.0 focuses on digitization using big data or artificial intelligence which will produce innovations in the use of internet networks in various fields, especially in the field of education (Santoso 2018). Therefore, as a teacher, it is expected to be able to follow the changes that occur so as to improve the quality and teaching and learning activities (Myori et al. 2019).

The use of technology in learning has various advantages for students and for teachers. For students, these advantages include (1) increasing the concentration and

attention of students in participating in learning (2) increasing student motivation (3) helping students to learn independently, and (4) increasing learning outcomes. As for teachers, the integration of technology in learning can (1) help reduce material delivery time (2) make the learning experience of students more enjoyable and satisfying (3) make learning materials more interesting, and (4) encourage teachers to increase their knowledge. and their ability to use technology (Nasution 2018; Putrawangsa and Hasanah 2018).

The technology used in learning can create interesting assessment tools so that student interest will increase. This assessment is usually called an online quiz. Online quizzes are media that can be used by teachers to measure students' understanding or ability of the material in learning. The advantage of online quizzes is that it can save educators' time, this is because the assigned results can appear directly on the teacher's page (Krisnawati 2018). Some of the wrong online quiz platforms include "Google Form", "Quizziz", and "Kahoot!". The advantages of using online quizzes in learning include (1) it is flexible because it can be done anytime and anywhere (2) it is more efficient because it does not use paper (3) can be accessed through various media such as computers, laptops, android or smartphones, or tablets (4) supports the paper saving program as a form of environmental care and (5) saves energy and costs because there is no need to print and distribute to students (Andari 2020; Batubara 2017; Hidayat and Surarso 2012; Yana, Antasari, and Kurniawan 2020).

Another platform that prospective teacher students can use to help implement learning is a live worksheet. The Liveworksheets platform is a platform in the form of a website that provides services to assist educators in using LKPD and converting it into an online interactive E-LKPD form. This platform can be accessed via https://www.liveworksheets.com/ using a computer or mobile device (Prabowo 2021). The liveworksheets platform is an alternative to delivering material in the form of accessible and interactive worksheets so that students can provide responses/feedback to the worksheets that have been provided online (Rhosyida et al. 2021). The advantages of this platform include (1) feedback or student score results can be displayed immediately after students finish working on worksheets (2) stimulate and motivate student activity in learning and (3) allow teachers to make questions according to the characteristics of students because teachers only change activities that were previously traditional or still in the form of printed questions to become online and interactive (Amalia and Lestyanto 2021; Lestari 2022; Prastika and Masniladevi 2021).

Several types of questions that can be developed using the liveworksheets platform include multiple choice questions, short descriptions, long descriptions, join arrows, drop downs, drag and drop, word search, check boxes and listening and speaking questions. In more detail, the type of question script that can be used in the liveworksheets platform can be described as follows (Fauzi et al. 2021).

Table 1. script that can be used in the liveworksheets platform

No	Question Type	Script
1.	Multiple choice	For the correct answer, type select: yes
		For wrong answer type select:no
2.	Brief Description	Directly typed in the answer key
3.	Join arrow	*join:1* is paired with *join:1*
		join:2 is paired with *join:2*
		etc
4.	Drag and drop	*drag:1* is paired with *drop:1*
		drag:2 is paired with *drop:2*
		etc
5.	Drop down	*choose:*correct answer/wrong answer/wrong answer or*
		choose:wrong answer/ *correct answer/wrong answer
6.	Check box	For correct answer **type tick**:yes
		For wrong answer, **type tick**:no
7.	Word search	Type **wordsearch** then enter the number of rows and the number of columns
8.	Listening and speaking	*listen:word*
		speak:word

The existence of this E-LKPD can help make the implementation of learning more varied and not boring. Through the implementation of E-LKPD using the live worksheets platform, it is hoped that prospective teacher students can develop their professional abilities in the digitalization era. This is because through the application of E-LKPD assisted by live worksheets, teachers can develop the ability to master technology in the form of the internet that can help the learning process. The live worksheets platform can help teachers save time, while the benefit for students is that it can increase learning motivation. Another benefit obtained is in terms of the environment, which can save paper usage (Khikmiyah 2021).

Based on the observations made by researchers through the analysis of the Learning Implementation Plan (RPP) document, students are still limited in using technology with images and powerpoint media to deliver learning materials. Taking grades for students is still limited using the Google Forms platform. This is because there is still a lack of knowledge and insight of students about platforms that can help them in implementing learning. Therefore, in this research, there is the provision of material to students regarding the liveworksheets platform to be used in the learning that will be carried out.

The use of the liveworksheets platform has been studied by several researchers before. These studies include research conducted by (Purwaningrum and Leksono 2022) who developed Student Worksheets (LKPD) using the liveworksheets platform. The results show that digital-based worksheets are a learning innovation in the digital era that can be applied. Another research is research conducted by (Rhosyida et al. 2021). The research utilizes the liveworksheets platform as an online-based assessment tool. The results show that the live worksheet platform is an online-based assessment that is attractive and easily accessible, interactive, and can present a variety of activities

that can be adapted to the characteristics of students. Therefore, this study aims to find out how students perceive the liveworksheets platform as an effective assessment medium in today's digital era.

The study began with providing material to 6th semester students of PGSD UNS Surakarta who had received Micro Teaching material. Through the training carried out, it is hoped that students can use the liveworksheets platform in learning which will be carried out as an evaluation tool. The focus of this research is to find out the difficulties experienced by students in using the liveworksheets platform in learning and find out what students think about the platform.

2   Method

The research method used in this research is qualitative research. The researcher tried to examine the student's point of view regarding the use of the live worksheets platform in the learning that was carried out. This research was conducted at the Elementary School Teacher Education Study Program (PGSD) Sebelas Maret University, Surakarta. The research was conducted for one month, namely in June 2022. The respondents consisted of 30 6th semester students who were taken randomly. Researchers chose students in that semester because students had studied Micro Teaching courses. Through these courses, students are asked to arrange a lesson which will then be carried out in elementary schools.

The research began with providing material to students about the liveworksheets platform and how to use it. Furthermore, students can prepare a Learning Implementation Plan (RPP) which was developed using the liveworksheets platform as an evaluation tool. After the implementation of the learning carried out by the students, the researcher gave a questionnaire to the students related to the ease of use of the liveworksheets platform in the implementation of learning by students and the effectiveness of the platform to use. The measurement indicators are described as follows.

Table 2. scripts that can be used in the liveworksheets platform

No.	Item
1.	LKPD based on the live worksheets platform can be used in any learning method
2.	LKPD based on the live worksheets platform can display questions that are easy for students to do
3.	LKPD based on the liveworksheets platform can help students learn independently
4.	LKPD based on the liveworksheets platform according to the needs of students in the 4.0 era
5.	LKPD based on the liveworksheets platform can increase student motivation

3   Research Results and Discussion

3.1   Research Results

1. Student Perceptions of the Liveworksheets Platform

Based on the results of the study, it was obtained that the level of effectiveness of the use according to the predetermined criteria indicators showed the following data results.

Table 3. Student Perceptions of the Liveworksheets Platform

No.	Item	Result	
		Yes	No
1.	Student worksheets based on the liveworksheets platform can be used in any learning method	100%	0%
2.	Student worksheets based on the liveworksheets platform can display question forms that are easy for students to do	100%	0%
3.	Student worksheets based on the liveworksheets platform can help students learn independently	93,3%	6,7%
4.	Student worksheets based on the liveworksheets platform according to the needs of students in the 4.0 era	100%	0
5.	Student worksheets based on the liveworksheets platform can increase student motivation	96,7%	3,3%

The results of the data obtained indicate that 98% of positive reactions agree that the liveworksheets platform is an effective assessment tool and in accordance with predetermined criteria. Students agree that the platform can be combined with various learning methods applied by teachers in learning because the live worksheets platform can provide questions that suit the teacher's needs. In addition, this platform provides forms of questions that are easy for students to do, for example, multiple choice questions and short descriptions that are familiar to students in each learning evaluation. However, the advantage of this platform is that teachers can also create other forms of questions, such as searching for words in boxes. The use of this platform in learning in elementary schools can increase the motivation and independence of students because through this platform students have developed the use of technological capabilities to be used in a positive realm, namely learning.

Based on the results of the study, the teacher found that there were obstacles in implementing the evaluation using the liveworksheets platform, namely that students were cool to chat alone with their friends and the class became less conducive. In addition, there are still students, especially in lower grades who cannot use computers so they need more guidance from the teacher.

2. Student Difficulties in Using the Liveworksheets Platform

The results of the study of 30 students showed that all students felt that the liveworkshetss platform was easy to use. Based on the measurement scale which is divided into 5, namely (1) very easy (2) quite easy (3) easy (4) difficult, and (5) very difficult, students obtain the following data.
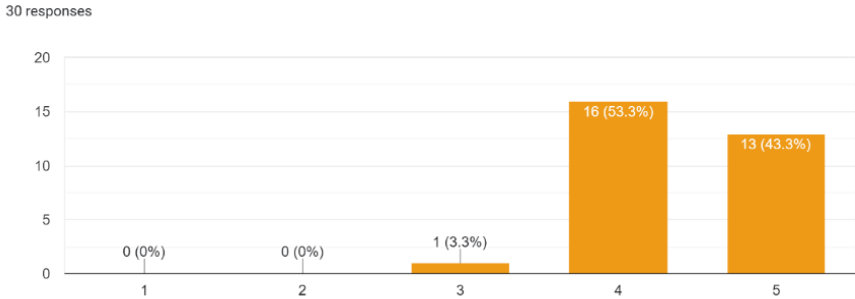
Fig. 1. Results of the study of 30 students

Based on the graph above, it can be interpreted that as many as 53.33% of students find it quite easy to use the liveworksheets platform and another 43.33% feel that the platform is very easy to use. Based on the reasons that have been explained, students feel that the liveworksheets platform is easy to operate, very practical, and has a simple design. Some said that the features in the liveworksheets platform have complete features and are easily accessible as long as they are connected to the internet. This platform also has a code (script) that is not complicated to use.

The difficulty experienced by students in using the live worksheets platform based on the research results obtained is that students need time to memorize the code (script) needed to make questions according to the type of questions they want. Another obstacle that can be a challenge in implementing the liveworksheets platform is if there is no internet network or quota, especially if schools do not have electronic facilities and adequate internet networks, especially in remote areas. The use of the live worksheets platform also demands the creativity of the teacher to present questions that are in accordance with the character of the students, so that if the teacher is not creative, the use of this platform will be less than optimal.

Based on the results of the data related to the willingness of students to use the liveworksheets platform in the learning to be carried out, the willingness of students to reach the level of 100%.

Based on the data results, the reason students want to use the liveworksheets platform in learning is because the liveworksheets platform is easy to use, interesting, efficient and fun. Another opinion said that this platform can help teachers and students save paper and costs, in addition to the demands of the times for technological advances in the digital era, students agree to use the platform in learning to familiarize students with technology from a young age. . Another opinion said that through the use of this platform it is very practical for teachers, this is because teachers do not need to be difficult to correct and calculate students' scores. All students also agreed to recommend the use of this live worksheets platform to other friends (educators) because it really helps other educators to carry out online learning and improve teachers' ICT mastery skills. Another opinion states that through the liveworksheets platform it can help all generations to experience digital things so that development can develop evenly because this platform is a new innovation.

3.2   Discussion

1. Student Perceptions of the Liveworksheets Platform

Based on the research results obtained to determine students' perceptions of the liveworksheets platform, it was found that 98% of students gave a positive score that the platform is an effective assessment tool to be used in the current digital era. Based on the determined measurement indicators, the results of the study show that integrating technology in learning can increase the interest, motivation, and level of independence of students in learning. This is because students are not only required to master the learning material, but also help them to develop their ability to master technology (Rachmawati and Rohaeti 2017).

Students agree that the use of the live worksheets platform can display the form of questions that can be adapted to the characteristics of students and adapted to the needs of students in learning 4.0. Through the application of technology in learning, the learning paradigm that used to be teacher-centered can switch to student-centered (Suprapto 2019). Students in learning 4.0 require the application of digital literacy in the learning process so that they can create the character of modern students at the elementary school level (Khasanah and Herina 2020). Through the evaluation of learning that is used using the liveworksheets platform, the needs of learning 4.0 can be met according to each student's character.

The liveworksheets platform can be used and combined with any learning method implemented by the teacher. The selection of appropriate learning methods is needed because students have different levels of abilities, achievements, tendencies, and interests for each individual (Septianti and Afiani 2020). Through the application of appropriate methods with the help of the right evaluation process, the learning objectives to be achieved will be achieved optimally. This is because evaluation acts as a tool to measure the achievement of students' success during class learning and to determine the achievement of the objectives of the learning that has been carried out by the teacher (Huljannah 2021).

2. Student Difficulties in Using the Liveworksheets Platform

Based on the research results obtained, the most students find it difficult to use the liveworksheets platform because of the script that must be known. However, students did not find it too difficult because the scripts that had to be memorized were short and easy to understand code. This can be overcome if students can continuously apply the use of this liveworksheets platform so that the difficulty of memorizing the required scripts does not need to be something to worry about. This is in accordance with the opinion (Komalasari et al. 2022) which states that teachers need to create interesting learning so that learning objectives become more optimal.

Another difficulty lies in network constraints and the availability of facilities. This is because students, especially in lower grades, are not allowed to bring cell phones to school, while not all schools can provide computers and internet networks. In accordance with the opinion expressed by (Sahelatua 2018) that unstable electricity supply and poor internet network greatly affect the implementation of the learning process

with the integration of technology in it. So in using this platform the teacher can use it in high-class learning and if the facilities have been met.

4   Conclusion

Based on the results of the research that has been carried out, it can be concluded that the live worksheets platform is an effective evaluation tool because it can increase the interest and motivation of students and help students learn independently. This platform also has advantages that lie in the ease of adjusting the form of questions according to the needs of the teacher so that it can be adapted to the characteristics of students. Through the live worksheets platform, teachers have the freedom to create various forms of questions and can be used in any learning method.

The difficulty of using the liveworksheets platform based on the research results obtained is the difficulty of memorizing the code (script) needed to create different types of questions according to needs. Another difficulty is the difficulty of the internet network and limited infrastructure if the application of the use of the live worksheets platform is used in elementary schools that do not meet internet and computer network facilities.

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