

PROPER MEASUREMENT AND ASSESSMENT OF LEARNING IN ONLINE LEARNING

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Abstract

Measuring and assessing online learning is very important to study because online learning with its advantages and disadvantages is a form of learning that is currently widely used. The purpose of writing this article is to find out what platforms are appropriate to use for online learning assessment. This article was written using a simple qualitative descriptive and literature study method by reviewing several related literature. The data collection location at SIT Ibnu Abbas Cikarang was 35 teachers. Data collection was done using random sampling. The results of this research are measurements and assessments of online learning at SIT Ibnu Abbas Cikarang using several platforms, namely Quiziz, Goggle Form, Kahoor and Wordwal. Quiziz is one of the most interesting platforms compared to others. The percentage of results comparing teachers' perceptions of good and interesting platforms is for Google Form an average of 31.43%, an average of 51.43% for Quizizz, an average of 2.86% for Kahoot and an average of 8.57% for Wardwall. The conclusion of this article is that quiziz is a good and interesting online learning and assessment medium.

Keywords: Measurement, Assessment, Online Learning

Abstrak

Pengukuran dan asesmen pembelajaran online sangat penting untuk dikaji karena pembelajaran secara daring atau online dengan kelebihan dan kekurangannya merupakan bentuk pembelajaran yang saat ini banyak jalankan. Tujuan dari penulisan artikel ini adalah untuk mengetahui platform apa saja yang tepat digunakan untuk asesmen pembelajaran online. Penulisan artikel ini menggunakan metode studi kepustakaan dan deskriptif kualitatif sederhana dengan mengkaji beberapa literatur terkait. Adapun tempat pengambilan data di SIT Ibnu Abbas Cikarang sebanyak 35 guru. Pengambilan data dengan random acak sampling. Hasil dari penelitian ini adalah pengukuran dan asesmen pembelajaran online di SIT Ibnu Abbas Cikarang menggunakan beberapa platform yaitu Quiziz, Goggle Form, Kahoor dan Wordwal. Quiziz adalah salah satu platform yang paling menarik dibandingkan dengan lainnya. Adapun prosentase hasil perbandingan persepsi guru terhadap platform yang baik dan menarik adalah untuk google form rata-rata 31,43%, quizizz rata-rata 51,43%, kahoot rata-rata 2,86% dan Wardwall rata-rata 8,57%. Kesimpulan dari artikel ini adalah bahwa quiziz merupakan salah satu media pembelajaran dan asesmen online yang baik dan menarik.

Kata Kunci: Pengukuran, Asesmen, Pembelajaran Online

INTRODUCTION

The learning process is an activity carried out by educators and students either by providing material or information, providing assignments or providing motivation. The current learning process can be held flexibly, which can be done offline or online. Online learning can be done anywhere and is not limited by space and time (Supriyatin & Asih, 2021). Online learning, in addition to the above convenience, of course, also has its obstacles. From the teaching side, there is a lack of technical support during the online learning process, limited knowledge and abilities as well as a minimal understanding of the creation of teaching materials in digital form, software or websites to support teaching and learning (Hidayat et al., 2020). Online learning has encouraged the use of learning applications in digital form (Marbun, 2021), including an assessment system that cannot be done directly. The change in the form of formative and summative tests is carried out online through e-learning or other learning applications (Hera Adinda et al., n.d.). To determine the success of the learning process, a tool is needed, namely measurement or evaluation. Evaluation is one of the activities that reveals the quality of the learning process and student learning outcomes, and needs to be included in the overall framework of the education evaluation system in accordance with the law. (Wahyu Teresia, 2021).

The assessment process is an integral part of the learning process, not a separate part of the learning process (a part of, not part from instruction). Assessments must reflect real-world problems, not just schoolwork-kind problems. Assessments should use a variety of sizes, methods and criteria that suit the characteristics and essence of the learning experience. Assessment must be holistic and include all aspects of learning objectives, namely: cognitive, affective and sensory-motor (Patta Bundu, 2017).

In assessing the results of the learning process for students, it must be in accordance with the learning method that is being carried out, so that the value of the assessment obtained is accurate according to the actual conditions. Because the results of the assessment determine to make decisions on the course of the next learning process. Learning with the online method must use the right type of assessment, as well as learning with the offline method must also use the right type. This article focuses on exploring appropriate learning assessments in online learning. Assessment in learning is carried out as a process to determine the development of students during learning activities. This can be used as a reference for teachers to make decisions in the preparation of grades as a result of student learning (Imania & Bariah, 2019). Learning assessments are an important tool for creating effective learning. (Arifuddin & Nur Rokhmah, 2021). The high level of need for assessment as a reference in online learning requires an in-depth study related to the empirical implementation of this topic. Therefore, a comprehensive review of various current literature related to the implementation and effective assessment process is needed.

This study reviewed several literature related to online learning assessments. The development of this review is based on the problem of what platform is used in online

assessment and which is the best and appropriate for online assessment. By looking at the results of the literature review presented in this article, readers are expected to get a clear picture of the appropriate assessment. The contribution of this research to the field of education is also expected to be used as a reference for the development of online learning assessments.

METHODS

This research uses a field study method. Data collection using observations and questionnaires given to teachers. The object of this research is the proper measurement and assessment in online learning. Assessment in online learning is the object of research because there are changes in the application of assessment. The assessment, which was initially carried out directly face-to-face and recorded with physical files, is now carried out virtually and recorded digitally. Assessments conducted online have various types and developments from various platforms. The data collection was taken from 35 SIT Ibnu Abbas teachers, who had participated in a webinar to strengthen the independent curriculum and then they were asked to fill out an evaluation of the results of the webinar online with Quizizz media. Then they were given a questionnaire that explored teachers' perceptions of the use of Quizizz as an online evaluation medium.

The survey questions are divided into 3 categories, namely Dig which one between the quizizz platform, google form, kahoot and wordwall with the following criteria:

1. Most effective,
2. Most interestingly,
3. Easiest to use.

Then the results of the questionnaire were analyzed using the right scale.

RESULTS AND DISCUSSION

SIT Ibnu Abbas Cikarang, is an institution that provides education from kindergarten to high school levels. Currently, it is generally common to organize face-to-face student learning, although it is possible to use a blended learning system, which is a combination of face-to-face and online or online (Research et al., 2022). Online learning at SIT Ibnu Abbas is more often used in teacher activities in the form of webinars on teacher skill and competency development, such as those held in February and March 2024, during 10 meetings of the Independent Curriculum Strengthening Webinar. In this webinar activity, the researcher conducted research on the perception of teachers who use an online learning outcome evaluation platform, namely Quizizz.

Aspek	Quizizz (%)	Google Form (%)	Kahoot (%)	Wordwall (%)
Efektif	51,43	34,29	5,71	8,57
Menarik	80,00	8,57	2,86	8,57
Mudah	51,43	40,00	0,00	8,57
Rata-rata	57,14	31,43	2,86	8,57

From the table, it can be seen that SIT teacher Ibnu Abbas stated that the Quizizz Platform is more effective as an online evaluation medium. Based on a summary of the questionnaire from three indicators, it was successful with an average percentage of 57.14 percent, above other media, namely Google Form 31.43%, Kahoot 2.86% and Wordwall 8.57%. SIT Ibnu Abbas teachers generally perceive Quizizz as a learning assessment medium that is easy to use and does not burden students, interesting because the questions are displayed more readable and make students focus and interesting with the existing features and displays. Quizizz media as a learning medium is not burdensome for students and teachers, this media is quite light for smartphone use, easily accessible for free.

Barriers Online measurement and assessment

The implementation of online measurement and assessment has supporting and inhibiting factors, the supporting factors include convenience. Ease of processing value, access, workmanship, paperless (paperless). Learning assessments carried out through media such as Google Form, Testmoz integrated with Google Classroom, Plickers, WhatsApp certainly have obstacles such as teachers cannot monitor the condition of students directly, require limited internet quotas, unstable networks, and inadequate devices (Apriliani et al., 2021; Marno & Tausih, 2021; Medriati & Risdianto, 2020; Munawaroh et al., 2021). The implementation of distance learning makes it difficult for teachers to carry out variations of assessment types. In addition, teachers' ability to understand various assessments and assessment techniques is still minimal (Jumaeda & Alam, 2020).

So far, there are some teachers who can only apply cognitive assessments such as assessments of daily tasks and summative grades without conducting affective and psychomotor assessments (Yolanda et al., 2021). Obstacles to learning implementation arise when there is a disparity in networks and technology. Unstable networks trigger students to be inhibited from participating in learning. The existence of a technology gap is also an obstacle because some students do not have their own gadgets so they have to use gadgets owned by their parents (Widiawati, 2022).

DISCUSSION

Discussion of measurement and assessment

Measurement in learning is a process that seeks to obtain a quantitative representation of which characteristics a student has. Measurement is a process or activity to determine quantity rather than something. (Shofiyah et al., 2018). In relation to learning processes and outcomes, assessment can be interpreted as a systematic and continuous process or activity to interpret a set of information about the learning process and outcomes of students obtained from measurements in order to evaluate something. (Shofiyah et al., 2018)

Online Learning

According to Bates (in Sanjaya, 2020: 52), online learning can be defined as a form of distance education in which the delivery of material is carried out via the internet synchronous or asynhromous. Online learning is usually known as e-learnig, virtual learning, computer-mediated learning, web-based learning, and distance learning. This learning term implies that students and teachers do not have to be face-to-face in the learning process but can use digital technology media such as computers and androids that allow for flexibility of access.

Online Assessment Form Plates

Independent learning gives freedom to students to feel a pleasant learning atmosphere and freedom for teachers to create learning that is both educational and fun. A fun learning atmosphere has a great effect on interest, motivation and learning outcomes. One of the developments in information and communication technology is the development of telecommunication technology, online-based learning media in various platforms, one of which is the e-learning platform (Ahmad, 2020). The advancement of science and technology forces the educational environment to adapt to the development of technology, in this case E-learning. E-learning can be used as one of the media that makes it easier for lecturers and students to learn.

Online learning that is held certainly requires an assessment or measurement of learning outcomes, so one of the options for implementing the assessment is by providing questions using media or platform forms such as WhatsApp, Google Classroom, Google Form, Plickers, Testmoz, and Microsoft Teams. The implementation of assessments is in the form of quizzes, formative tests and summative tests. Based on the assessment of the cognitive, affective and psychomotor domains carried out during the pandemic, the most frequently used assessment is cognitive assessment with the media or tools used, namely Google Form. The use of google forms to carry out assessments is considered effective and helps teachers in processing data, all recorded data will be automatically compiled in the form of spreadsheets and also Google Form can display results in the form of diagrams, percentages of each indicator used (Widiawati, 2022).

CONCLUSION

Measurement and assessment are an important part of learning, both offline and online. There is a lot of online learning that is currently being carried out, even though it is no

longer during the pandemic, so studies related to proper measurement and assessment in online learning are needed. Because the right assessment will make it easier to follow up and draw conclusions from student learning outcomes. Based on the formulation of the existing problem, for online measurement and assessment, media such as Google Form, Google Classroom Integrated Testmoz, Plickers, Quiziz, Microsoft Teams, Zoom, Website, and other E-Learning form plates can be used.

Although it provides convenience, online assessments also still have several obstacles and obstacles so that this online assessment needs to continue to be studied and developed so that it can be more effective and efficient and most importantly able to properly measure the success of students both in the cognitive, affective and psychomotor realms. Based on data analysis and discussion and literature review conducted by the author, it can be concluded that one of the right assessments and measurements of online learning outcomes is to use the Quiziz platform.

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