THE EFFECTIVENESS OF QUIZZIZ APPLICATION IN ASSSESSING STUDENTS' COGNITIVE ABILITY OF ENGLISH GRAMMAR

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Abstract:

 This research is aimed to investigate the effectiveness of Quizziz application in asssessing students' cognitive ability of English grammar. It used a quantitative research method using SPSS IBM 20 with dependent sample t-test to 30 English education department students in Universitas Zainul Hasan Probolinggo who took the English grammar class. The data of this research were collected by distributing pretest and post-test. Besides, the researchers also distributed closed form questionnaire and it had 10 questions about the application of Quizziz. The data were analyzed by using SPSS IBM 20 with dependent sample t-test then the data counted will be analyzed descriptively. This research was conducted to identify the level of student achievement in the effectiveness of Quizziz application in asssessing students' cognitive ability of English grammar. Moreover, it is aimed to examine students' perceptions of the effectiveness of interactive learning based on Quizziz applications in enhancing students' cognitive ability of English grammar.
 Keywords: *Effectiveness, Quizziz, Cognitive, English Grammar*

INTRODUCTION

In the process of teaching and learning English grammar, grammar and language cannot be separated to each other. By using grammar correctly students can produce acceptable utterances and sentences. Therefore, assessment is needed to have reflection on their grammar learning, define misunderstanding, and assess their rate of progress. Students' interaction with the assessment process has an impact on their future learning experience and the development of their learning approach and we will find out the information about their ability in learning achievement.

There are various online assessment (educational games) tools can be used in English teaching and learning, such as *Quizizz, Kahoot!, Menti, FlipQuiz*, *Duolingo*, *Ribbon Hero*, *ClassDojo, Google form* and etc.,. However, Quizizz is considered as the most suitable online assessment tool in English teaching and learning grammar. It is an online assessment tool that can be downloaded and used free. It is easy to build by any lecturer. It is an online quiz question built by the course 's lecturer. It is just needed to sign up and have an account for free before building the question. It

makes classes interesting when students answer online quizzes and the scores display continues on the front screen of the classroom. The scores before the quiz will be visible to the students and this will make the students become excited and focus due to the limited time. The quiz questions created by the lecturer and students will feel so excited during the teaching and learning process through the atmosphere interactive learning [1] . This application can be used through various devices including computers, tablets and smartphones.

Quizziz is a method of learning through interactive games that contain elements of competition. It encourages lecturer and students to interact face-to-face in the class. Changes in the educational environment require educators to inject elements creativity in teaching. Lecturers are encouraged to conduct lesson sessions in the classroom by performing interactive learning activities that engage students so that they can see them live the relevance of the lessons that followed. It is an educational game-based learning media that contains interactive quizzes. It can be used in learning activities such as holding a pretest, posttest, and practice questions, strengthening of material to measure student understanding, remedial, homework and so on[2]. Its answer choices have varied images and colors so it can be very interactive to assess the students' English grammar.

According to [3] the use of the this application can provide an overview to educators that in evaluating student cognitive test learning outcomes can be obtained easily and in a fast time, so it is highly recommended as an online learning medium used in the evaluation of learning in various fields and various subject matter, including in grammar. Therefore, in this research, *Quizizz* as the focus of the research as the assessment tool for English grammar.

This study is aimed to investigate the effectiveness of Quizziz application in asssessing students' cognitive ability of English grammar. The English education department students will have some quizziz of English grammar to test their Cognitive ability. While the urgency of this research is to identify the level of student achievement in the effectiveness of Quizziz application in asssessing students' cognitive ability of English grammar. Moreover, it is aimed to examine students' perceptions of the effectiveness of interactive learning based on Quizziz applications in enhancing students' cognitive ability of English grammar.

In teaching and learning English, grammar and language cannot be separated to each other. Grammar is the study of structural relationships in a language or the system of rules implicit in a language, viewed as a mechanism for generating all sentences possible in that language[4]. By using grammar correctly a learner can produce acceptable utterances and sentences. This research is about language, how the role of using English with proper grammatical structure. Sentence structure is expressed by numerous specialists as an essential information on learning English. To understand the communication in a language we have to use language grammatically, it is because grammar is the basic rule in a language. If we use language grammatically, it means that we learn language according to the rules of grammar and it will produce good sentences[5].

In the process of teaching and learning English grammar, assessment is one of the important keys to the learning experience which influences the way students approach their learning. Besides, it can improve and strengthen their motivation. It is inseparable from learning activity in the school and presented at all stages of the learning process. It revises how and what students wish to study, as well as how much time they devote to different tasks and learning resources. It allows students to reflect on their grammar learning, define misunderstanding, and assess their rate of progress. Students' interaction with the assessment process has an impact on their future learning experience and the development of their learning approach and we will find out the information about their ability in learning achievement. They devote their efforts towards any material or abilities they think will be assessed[6]. By assessing them, teachers not only can get feedback from students about the way

they teach, whether their teaching is effective or not but also can find out whether they successfully achieve both the purposes and the objectives which they set for lessons or not.

Assessment is a procedure used to get the information of the student's achievement and performance. There are two kinds of assessment to assess the students' ability; they are formative assessment and summative assessment. Formative assessment is an assessment that gathers information about student learning to determine what students are understanding and what they still need to learn to master a goal or outcome and it is held during a lesson or unit of study to track the students' progress and it is used continually by providing descriptive feedback. Additionally, summative assessment is an assessment that shows what students have learned, held at the end of a lesson or unit of study, presented in a periodic report to evaluate what students learn[7]. These assessments are different in use, the teachers or lecturers can use the appropriate assessment to meet their needs.

Formative assessment or formative test is a process by which assessment information is not only used by teachers but also students. It focuses on promoting student learning by giving information on performance that students can act on, and by ensuring staff adapt teaching to meet student needs[8]. Therefore, formative assessment and feedback are inextricably linked. It encourages students to participate actively in the learning process. It also helps students become both self-regulated and confident learners. Teachers use the assessment information to adjust their strategies of teaching. Students use the assessment information to adjust their strategies to learning. Teachers can both motivate and encourage students to learn by emphasizing progress and achievement rather than the failure of the students which is obtained from the assessment information. There are various online assessment tools that teachers can use in English teaching and learning, such as *Quizizz, Kahoot!, Menti, FlipQuiz, Duolingo*, *Ribbon Hero*, *ClassDojo, Google form* and etc.,. According to [9], the responses of students about the implementation of Quizizz are positive than Kahoot! and any other online assessment tools. Quizizz is a web tool to create interactive quiz games used as an assessment instrument in the classroom[10]. Therefore, Quizizz is considered as the most suitable online assessment tool in English teaching and learning grammar. It is an online assessment tool that can be downloaded and used free. This application can be used as a formative assessment tool that can be created based on the curriculum. By using Quizizz, teachers not only can give tests but also can assign homework to the students as additional practice[6]. The order of the question is put randomly for each student in the classroom. The type of the question in Quizizz is multiple choices which have at least two possible answers, and four as the most possible answer.

There are many advantages of using Quizizz in English teaching and learning. The use of it can add motivation to classroom activities as well as spark students' interest in the material being taught. It motivates students and sparks the interest of the students in the material being taught. Besides, it organizes the data of the game well. The way Quizizz organizes and stores the data of the game is user friendly. It has a few options not only for students but also for the whole class. The data or reports can be checked through Quizizz website then it can be downloaded as an Excell spreadsheet which can be shared directly to the email of the students' parents. It is in line with research conducted by [6]. The result of her study showed positive perspectives of the Dynamic English Course students toward the use of Quizizz as an online assessment tool for English teaching and learning, especially on a formative one. The students strongly agreed that it has an attractive display which is interesting and fun, students can't cheat during the test, it creates a competitive atmosphere in the classroom, and it is better than the traditional formative test.

A previous study which is related to this study conducted by [4]. The study is about "Students' Perception on Quizziz As Game Based Learning in Learning

Grammar in Written Discourse." The purpose of their study is to investigate the students' opinions on Quizizz as Game-Based Learning in learning grammar in written discourse and their obstaction in the usage. The data for this study was gained through questionnaires and interviews. This research belongs to descriptive qualitative method is suitable to be used in this research. The participants of this research was students of fourth semester of English Department. The instruments of this research were questionnaire and interview. Ten questions were provided by the researcher in which relevant to topics by using Quizizz as games-based learning. The study revealed that the students had a positive perception of quizzes, and all students were very active in answering the questions provided by research and more concentrated on the topic. The study's result contributed to improving EFL teaching and learning activity, especially in learning grammar in Written discourse. The conclusion of this research was most of the students strongly agree that quizziz made students more interest in learning grammar in written discourse. Therefore, this research is conducted further to investigate the effectiveness of Quizziz application in asssessing students' cognitive ability of English grammar.

METHOD

This research uses a quantitative research method using SPSS IBM 20 with dependent sample t-test to 30 English education department students in Unzah who take the English grammar class. The data of this research is collected by distributing pretest and post-test. Besides, The researchers also distribute closed form questionnaire and it has 10 questions about the application of Quizziz. The data is analyzed by using SPSS IBM 20 with dependent sample t-test then the data counted will be analyzed descriptively. For feedback, the data obtained from the questionnaire answer will be processed through checking, categorizing, calculating the percentage, presenting the data in some tables and diagrams, interpreting the findings, making conclusions and reporting the result.

The subject in this research is 30 students of S1 English Education Department, University of Zainul Hasan Probolinggo. They are in the second semester and take the grammar class. They have not experienced yet in doing the formative test about English grammar via Quizizz.

The research procedures are important to determine way of the research. The following procedures of this research are:

1. Selecting problem is the first step to select the problem to investigate.

2. Reviewing the literature on the problem is the process to gain more understanding and insight into the problem and to determine what research may already have been done,

3. Designing the research is the researcher's plan for the study, which includes the method to be used, what data will be gathered, where, how, and from whom,

4. Collecting the data is the process of collecting the data through questionnaire to obtain data about the Indonesian and Malaysian students' perspective towards using Quizizz as an English grammar assessment tool. To collect the data, the researchers distribute pretest and post-test to investigate the students level achievement in asessing cognitive ability of English grammar, and the Google Form questionnaire is distributed through WhatsApp to the students for the feedback. After filling in the questionnaire, automatically their answers are recorded well in the form of diagram and excel of Google Spreadsheet.

5. Analyzing the data is the step to analyze the data descriptively from the instruments that are used in the research to make easy in understanding the data. To analyze the data, the researchers will describe the data by analyzing the data by using SPSS IBM 20 with dependent samples t-test. Then data will be processed by checking their answer in the excel of Google Spreadsheet first, categorizing their answer, calculating the percentage, presenting in some tables and diagrams to obtain the result of the study.

6. Interpreting the findings is the step of the researcher next tries to interpret the findings in terms of the research problem. The researchers will interpret the result of the study and create discussion.

7.Making conclusions and reporting result.

FINDINGS AND DISCUSSION

Findings

The results obtained from pre-test and post-test were presented below:

Table 1

Result of Pre-Test and Post-Test of Student on Using Quizizz

Student	Pre-Test	Post-Test
1	20	70
2	20	70
3	30	60
4	20	60
5	20	60
6	30	70
7	30	70
8	40	70
9	30	60
10	30	70
11	40	80
12	30	70
13	40	70
14	50	80
15	50	90
16	50	80
17	50	80
18	80	100
19	80	100
20	50	90
21	70	100
22	70	90
23	70	90
24	60	80
25	60	90
26	70	100
27	60	80
28	60	90
29	60	80
30	70	90

It can be seen in the table above that there was an increase from pre-test to post-test score. The score of pre-test obtained before the students used Quizizz as an English grammar tool, while the score of pre-test obtained before the students used it. Next, the data collected then they will be analyzed by using SPSS IBM 20.

The result after the data were analyzed were shown below:

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 pretest	48.0000	30	19.00998	3.47073
posttest	79.6667	30	12.72612	2.32346

Paired Samples Test

	Paired Differences			
	Mean	Std. Deviation	Std. Error Mean	Sig
Pre-post	-31.66667	9.12871	1.66667	.000

The result of the average scores on the pretest presented that the resulting score was 48, while the post-test resulted in an average of 79.67. When it is seen from the sig value, which is 0.000 less than 0.05, it shows that there is a difference in the average value of the pretest and posttest. This means that the value generated in the pretest is different from the posttest where there is an increase in the value.

Discussion

Referring to the result of statistic using SPSS IBM 20, it can be stated that the result of the average scores on the pre-test presented that the resulting score was 48, while the post-test resulted in an average of 79.67. When it is seen from the sig value, which is 0.000 less than 0.05, it shows that there is a difference in the average value of the pretest and posttest. This means that the value generated in the pretest is different from the posttest where there is an increase in the value.

CONCLUSION

To conclude, Quizizz is an effective English grammar assessment tool used in teaching grammar.

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