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## SOCIAL AND SCIENCE STUDENTS' PERCEPTION ON THE USE OF GOOGLE FORM AS AN ONLINE ASSESSMENT

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### Abstract

The purpose of this study was to determine the perceptions of social and science students on the use of Google Form as an online assessment in Senior High School Ploso. The method used in this research is quantitative method which using survey design from cross-sectional survey to 120 eleventh and twelfth grade students of SMAN Ploso, of which 60 social students and 60 science students. Close-ended questionnaire was used as an instrument in this study. The results show that social and science students have mean scores that fall into the medium and high categories. These two categories can be indicated into the category of positive perceptions. So the conclusion is social and science students have positive perceptions of using Google Form as an online assessment in Senior High School Ploso.

**Keywords:** *perception, google form, online assessment*

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### 1. BACKGROUND

Language assessment projected to assess the achievement of students curricular goals, diagnose their strengths and weaknesses in the specific domain of language learning, place them at the right level of teaching, or measure their abilities for specific goals in selection decisions (Brown & Abeywickrama, 2010; Hughes, 2003).

Although the practice of online assessment differs from onsite environment, “the principles of assessment do not change in an online environment” (Benson, 2003, p. 71). In addition, the assessment methods used in the online environment should reflect the nature of online learning which gives students more responsibility for learning (Liang and Creasy, 2004).

In general, online learning and assessment in Indonesia during this pandemic was carried out using various platforms such as Google Classroom, E-learning, Zoom, Google Meet, Whatsapp Group (Latip, 2020). SMAN Ploso where the school preferred using Google Form as an assessment platform although learning management system has already provided. Google form was applied since it is considered as accessible platform and more

manageable than sharing question sheet file through Whatapps Group. The use of google form raise different perception among students and teachers.

Perception itself is the ability of someone to see, to hear, to feel and to present or to understand what they fell about their environment in social life, physically and mentally. Students are human who are doing the online assessments which certainly have different perceptions of the use of Google forms as online assessments.

According to Pratiwi (2016), the characteristics of science students are more critical in responding the problems, being able to instil logical thinking, always optimistic in all respect, their attitude and behaviour are more polite, and having strong desire to learn. While the characteristic of social students, namely having the advantages in socializing, having a strong sense of solidarity among friends and being able to work well in all fields. Certainly, these differences in characteristic will affect the perception of each department.

Google Forms is a cloud-based data management tool used to design and develop web-based questionnaires (Raju & Harinarayana, 2018). Lately, Google forms is also very widely used especially in the online assessment process. That is because Google Form provides various answer choices such as multiple choice, checkboxes, scale, grid, text, etc. where teachers can choose an online assessment model based on indicators of learning achievement.

The use of Google forms for online assessment in this case provides several advantages, which is the test results are recorded automatically when students complete the test. As stated by (Agrawal & Maurya, 2016 p. 294) that “the results generated from the online survey method (google form) are safe because they are generated in the form of diagrams that cannot be edited”. Online assessment (Google form) also motivates students to participate, giving feedback to a large number of students, saving marking time (Dermo, 2009).

According to Robbins (2002:14) there are two types of perceptions, namely positive perception and negative perception. Positive Perception and negative perception. Positive perception comes from the individual satisfaction about certain object that becomes her/his source perception, the individual knowledge, and the individual experience of the object perceived. So, positive perception is a personal judgment about certain object positively. Negative perception, on the other hands, comes from the individual dissatisfaction about certain object that becomes her/his source perception, the individual ignorant, and the lack of experience of the object perceived. It can conclude, negative perception is a personal judgment about certain object negatively.

## **2. METHODOLOGY**

The research topic is about Social and Science Students' Perception on the use of Google Form as an Online Assessment in SMAN Ploso which is conducted as descriptive quantitative(Creswell, 2012). The research design used in this study was a survey research design. The survey research design is a quantitative research procedure that is carried out to describe the attitudes, behavior and characteristics of the population obtained through a sample in the population (Creswell, 2012, p. 21). The type of survey used is a cross sectional survey design, which is a research design that collects data at one time in the sample (Creswell, 2012, p. 377). Therefore, the aim of this research is to describe Social and Science students' perception on the use of Google form as an online assessment in SMAN Ploso.

In this section the researchers took 120 participants as data samples. The selection was randomized using two methods. The first way was making a lottery. The researcher made 14 pieces of paper, each of which contained the name of each class. For example, XI Science 1, XI Social 1, XII Science 2, and so on. After that, the researcher took the pieces of paper randomly and only 8 classes was taken by the researcher. The second way was that the researcher took a sample of 15 students who have an odd number of absences from the 8 classes. Researchers should ensure that the 8 classes selected consist of Social and Science Class.

In this research, researchers used a questionnaire as an instrument to find out result of the research. According to (Creswell, 2011, p.3) questionnaire is a data collection instrument that answers questions and other questions for the purpose of gathering information from respondents. Moreover, questionnaire is an instrument in which respondents provided written response to question mark items that indicated their response (Ary, 2002, p.566).

The researcher in this research conducted the close-ended questionnaire where the contents of the questionnaire are based on the theory of (Alsadoon, 2017), (Karim & Shukur, 2016), and (Dermo, 2009) as reference. There are twenty-two statements in the questionnaire and six aspects of indicators in the questionnaire those are: learner background, advantages of using Google form, design of Google form, answer model used, time limitation and feedback of Google form. Questionnaire was given only once to Social and Science students of SMAN Ploso after the researcher made the questionnaire based on the objectives of the study. The list of questions can be seen on Appendix.

Table 1.1 The indicators of the questionnaire

No	Indicators	Questions
1	Learner Background	Q1, Q2, Q3, Q4
2	Advantages of Google Form	Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12
3	Design of Google form	Q13, Q14, Q15, Q16
4	Answer model	Q17, Q18, Q19, Q20
5	Time limitation	Q21, Q22, Q23
6	Feedback of Google Form	Q24, Q25, Q26

The questionnaire used in the form of Likert four-point scale items involving “strongly agree”, “agree”, “disagree”, and “strongly disagree”. In addition, the researcher does not use neutral items in Likert scale because the respondent could have tendency to avoid making real choice. Neutral items are only being a way out in giving response (Dornyei, 2003). In this study, the researcher used a type of questionnaire instrument with scoring as follows: Strongly agree is 4 points, Agree is 3 points, Disagree is 2 points, and Strongly disagree is 1 point.

Before the questionnaire is distributed to the sample, the questionnaire should be tested to determine the visibility and level of understanding of the subject towards the items to be given. The samples used in this study were 15 students who had odd absent numbers in 8 classes selected in the sampling process. Whereas in this questionnaire trial, researchers will use different students as test materials.

### 3. FINDINGS AND DISCUSSIONS

#### 3.1. FINDINGS

Learner background is the first indicator which includes 4 statements to identify social and science learners' backgrounds when doing online assessment using Google Form. In the first indicator which is about the learner background, the researcher found the highest and the lowest mean number for each social and science student's answer. The highest mean number obtained from the social and science students' answers is shown by Q02 which is about "I did the online assessment using my own mobile" with the mean value (social = 3.63) and (science = 3.67). Meanwhile, the lowest mean value is shown by Q04 "I did an online assessment using someone else's wifi" with the mean value (social = 2.20) and (science = 2.18).

From these results, it can be seen that social and science students have the same background in preparing themselves to take online assessments using Google Form, which is they "use their own mobile phones". They also did not "use someone else's wifi" to take online assessments, but they did use their "own internet quota" to do online assessments using Google Form. It is shown that social and science students have ready to do online assessment by using Google Form.

The advantages of Google Form are the second indicator which includes 8 statements to identify advantages of using Google Form as an online assessment platform. Researchers find out the results of mean and percentage of each social and science student response statement in the questionnaire,

In this second indicator which is about the advantages of Google Form as an online assessment whether social and science students have the same or different perceptions of the advantages of using Google Form as an online assessment. There are four of the eight statements contained in this second indicator which fall into the high agreement category. These statements are Q05, Q08, Q09, Q12 which social and science students have mean value that included in the high agreement category or it can be concluded that social and science students have a positive perception of the above statements.

The next is the social and science students answers which included into the medium agreement category where the mean value ranges from 2.15 to 3.10, indicated by Q06 "Using Google form as an online assessment is interesting" with the mean value (social = 3.00) and (science = 3.10) which means that social and science students agree that online assessments using Google Form are interesting.

The second one is shown by Q07 "Assessment using Google Form is better than paper assessment" with a mean value (social = 2.80) and (science = 3.02), it can be seen that social and science students agree that the assessment using Google Form is better than paper assessment.

The third medium agreement category is indicated by Q10 "I feel happy doing online assessment using Google Form because no one controls", with the mean (social = 2.92) and (science = 3.03) which can be said that social and science students agree that they happy when doing online assessment using Google Form because no one controls.

The last statement which includes the medium agreement category is indicated by Q11 "I can still browse while doing the assessment using Google Forms" with the mean (social = 2.72) and (science = 2.73). From the mean results, it can be seen that social and science students agree that they can still browse while taking assessments.

From all the explanations above, it can be said that high and medium agreement category is a category of student answers which falls into a positive perception. Therefore, in this second indicator, social and science students have a positive perception of the advantages of using Google Form as online assessment.

The third indicator which includes 4 statements to identify the design of Google Form as an online assessment platform. Researchers find out the results of mean and percentage of each social and science student response statement in the questionnaire.

It can be seen that there is only one social student answer that included in the high agreement category, which is indicated by Q13 which is "It is easy to join assessment in the Google Form" with a mean value 3.17. Meanwhile, questionnaires number 14, 15 and 16 are included in the medium agreement category, with the mean values for each number (Q14: 2.82, Q15: 3.10, and Q16: 3.08). Then for science students' answers, there were three questionnaires that were included in the high agreement category, which were indicated by questionnaires number 13, 15 and 16, with the obtained mean values for each number, namely (Q13: 3.23, Q15: 3.23, and Q16: 3.20). As for the questionnaire that is included in the medium agreement category is shown by Q14 with the mean value of 2.92.

However, in this third indicator all the mean values fall into the positive perception category, even though there are two different categories, namely the high and medium agreement category. Therefore, it can be concluded that social and science students have positive perceptions of the Design of Google Form.

Answer Model of Google Form is the fourth indicator which includes 4 statements to identify the design of Google Form as an online assessment platform. In this fourth indicator social and science students prefer multiple choice question or short answer question. From the data above, it can be seen that the questionnaire number 17 "I prefer multiple choice question" is the questionnaire with the highest mean results of both social and science students, namely (social: 3.55) and (science: 3.52). Meanwhile, seen from the ease felt by social and science students, they feel that multiple choice questions are very easy than short answer questions. This can be seen from the mean results in questionnaires number 19 and 20, where the mean results of questionnaire number 19 are higher than questionnaire no 20, where (Q19, social: 3.12, science: 2.90) whereas (Q20, social: 2.97, science: 2.82). From the explanation above, it can be concluded that social and science students prefer multiple choice questions rather than short answer questions.

Time limitation is the fifth indicator which includes 3 statements to identify the design of Google Form as an online assessment platform. In this fifth indicator, the researcher wants to know the perceptions of social and science students when using Google form which is limited by time, whether they feel nervous or even feel challenged and interested when using google form. From the data above, it can be seen that both social and science students feel nervous when taking exams using Google Form which is limited by time. This is indicated by the mean results obtained in Q21 "I feel nervous when I take a time limited assessment" with the mean results (social: 3.12, and science: 3.22) and the mean results fall into the high agreement category. Meanwhile, for Q22 "I feel challenged and excited when I answer time-limited questions" with the mean results (social: 2.75 and science: 2.68). From the result of the two means, it can be concluded that most social and science students feel nervous when doing exams using google form.

As for Q23 "I have enough time to check my answers before the results are sent", most of social and science students' answers include in the medium agreement category, and

which is they agree that they have enough time to check their answers before the result are sent.

Feedback of Google Form is the last indicator which includes 3 statements to identify the design of Google Form as an online assessment platform. Feedback from the Google form consists of 3 statements. From the data above, we can see that the three questionnaires fall into the medium agreement category. This is shown by Q24 "Google form displays my test results directly" with the mean results (social: 2.70, science: 3.00). while Q25 "I got good scores when doing online assessment using Google Forms" with the mean (social: 2.67, science: 2.72) and for the last Q26 "The value put out by Google forms is very fair" with the mean (social: 2.78, science 2.78).

From those explanations, it can be concluded that Google form provides good feedback to its users, namely students of social and science at SMAN Ploso. Even though the three statements fall into the medium agreement category, it can be said that social and science students of SMAN Ploso have a positive perception of feedback on Google Form.

### **3.2. DISCUSSION**

The result of this study indicated that the social and science students have a positive perception toward the use of online assessment in Google Form. There are several reasons why the students have positive responses toward the use of online assessment by Google Form. The first, they enjoy use the online assessment on Google form because the design of Google form is very easy to operate. It is known from seeing the result of the social and science students' questionnaire on the third indicator, namely the design of Google Form. This finding confirmed Karim & Shukur (2016) statement that online exam design features also need to be considered by test makers so that they meet system efficiency and convenience for online exam participants. Therefore, the online exam feature is very important to make students feel enjoy and comfortable in doing online assessment.

Students were interested and happy when using Google Form as an online assessment is Google form provided many advantages, namely assessment using Google form are better and faster than paper assessment, and so on. Furthermore, they also feel that Google form provides direct feedback to its users, such as Google form displaying their exam results directly. This finding confirmed Agrawal & Maurya (2016) statement that "the results generated from the online survey method (google form) are safe because they are generated in the form of diagrams that cannot be edited". Not only used when conducting online surveys, the google form used for conducting assessments can also produce results in the form of non-editable diagrams. So, the value generated by Google forms can be said to be fair.

Assessment using Google Form has several answer choices, but in Senior High School Ploso only uses two answer choices, namely multiple choice and short answer. Between the two answer choices, multiple choice is the answer choice which is very popular for social and science students of SMAN Ploso. This is known from the results of the social and science students' answers to the third indicator, namely the answer model used. This finding also confirmed Karim & Shukur (2016) statement that online exam design features also need to be considered by test makers so that they meet system efficiency and convenience for online exam participants. Therefore, the online exam feature means the answer model is very important to make students feel happy and enjoy in doing online assessment.

The results above reveals that social and science students have the same background in preparing themselves to take online assessments using Google Form. This is known from seeing the results of the answers of social and science students on the first indicator, which is about the learner background. Even though social and science students have different characteristics, as Pratiwi (2016) said that "social students are students who have advantages in socializing, they are more communicative, have a strong sense of solidarity, and can work together in all fields. Meanwhile, science students are more critical and extractable ". But in this study, social and science students did not cooperate with their friends between major or other majors in conducting online exams. This is evidenced by the mean results on the first indicator where they take the online exam at their respective homes.

Therefore, after reading from the results of this study, and knowing social and science students' perceptions of using online assessment in Google Form, the teacher can reconsider what needs to be changed and what needs to be improved about the learning process, delivering material and most importantly when conducting online tests in the use of online assessment in Google Form after knowing the results of this study. This is also very useful to the teacher to reduce some of the obstacles faced by students when conducting online tests in Google Form.

#### **4. CONCLUSION**

Social and science students have a positive perception of using Google Forms as an online assessment. This is known from the results of the questionnaire that has been filled in by the social and science students of SMAN Ploso. Researchers analyzed by looking at the average value of the data. The researcher used some scales to indicate respondent's response; those are low average rating (1.00 to 1.9), medium average rating (2.15 to 3.10) and high average rating (3.11 to 4.00). Even though it is divided into three categories, the high and medium average rating is still included in the positive perception category. While low average rating is included in the negative perception category. However, the results of this research indicated that all social and science students' answers on each indicator were included in the high and medium average rating, in which both ratings were included in the positive perception category. So, it can be concluded that social and science students have a positive perception on the use of Google Forms as an online assessment at Senior High School Ploso.

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## APPENDIX

### QUESTIONNAIRE

**“Social and Science students’ perception on the use of Google form as an online assessment in SMAN Ploso”**

Name :

Class :

***Put a mark (√) on each statement below!***

**Information:**



- SD : Strongly Disagree = 1 point  
 D : Disagree = 2 points  
 A : Agree = 3 points  
 SA : Strongly Agree = 4 points

**Indicator: Learner Background**

No	Statements	S D 1	D 2	A 3	S A 4
1	I take online assessment at my own house ( <i>Saya mengerjakan ujian online di rumah saya sendiri</i> )				
2	I did the online assessment using my own Handphone ( <i>Saya mengerjakan ujian online menggunakan HP saya sendiri</i> )				
3	I took online assessment using my own internet quota ( <i>Saya mengerjakan ujian online menggunakan kuota internet saya sendiri</i> )				
4	I did an online assessment using someone else's wifi ( <i>Saya mengerjakan ujian online menggunakan wifi milik orang lain</i> )				

**Indicator: ADVANTAGES OF GOOGLE FORM (based on the theory of Alsadoon (2017))**

No	Statements	S D 1	D 2	A 3	S A 4
5	Using Google form as an online assessment saves time ( <i>Menggunakan Google form sebagai ujian online sangat menghemat waktu</i> )				
6	Using Google form as an online assessment is interesting ( <i>Menggunakan Google form sebagai ujian online menarik</i> )				
7	Assessment using Google form are better than paper assessment ( <i>Ujian menggunakan Google form lebih baik daripada ujian menggunakan kertas</i> )				
8	Assessment using Google form are faster than paper assessment ( <i>Ujian menggunakan Google form lebih cepat daripada ujian menggunakan kertas</i> )				
9	I can change my answer when doing an assessment on Google form  ( <i>Saya dapat mengubah jawaban saya saat melakukan ujian di google form</i> )				
10	I feel happy doing online assessment using Google form because no one controls				

	<i>(Saya merasa senang mengerjakan ujian online menggunakan Google form karena tidak ada yang mengontrol)</i>				
11	I can still browse while doing the assessment using Google forms <i>(Saya masih bisa browsing pada saat mengerjakan ujian menggunakan Google Form )</i>				
12	A good internet connection is required when taking online Assessment using Google forms <i>(Diperlukan koneksi internet yang baik saat melakukan ujian online menggunakan Google form)</i>				

**Indicator: DESIGN OF GOOGLE FORM** (based on the theory of (Karim & Shukur, 2016))

No	Statements	S D 1	D 2	A 3	S A 4
13	It is easy to join assessment on Google form <i>(Mudah untuk bergabung ujian di Google form)</i>				
14	The assessment design on Google form is interesting <i>(Desain ujian di Google form menarik)</i>				
15	The instructions for taking the assessment are easy to understand <i>(Instruksi dalam mengerjakan ujian mudah dimengerti)</i>				
16	The assessment feature on Google form is easy to operate <i>(Fitur ujian di Google form mudah dioperasikan)</i>				

**Indicator: ANSWER MODEL** (based on the theory of (Karim & Shukur, 2016))

No	Statements	S D 1	D 2	A 3	S A 4
17	I prefer multiple choice questions <i>(Saya lebih menyukai soal pilihan ganda)</i>				
18	I prefer short answer questions <i>(Saya lebih menyukai soal jawaban singkat)</i>				
19	I feel that the multiple choice questions are very easy <i>(Saya merasa bahwa soal pilihan ganda sangat mudah)</i>				
20	I feel that the short answer questions are very easy <i>(Saya merasa bahwa soal jawaban singkat sangat mudah)</i>				

**Indicator: TIME LIMITATION** (based on the theory of Dermo (2009))

No	Statements	S D	D 2	A 3	S A
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		<b>1</b>			<b>4</b>
21	I feel nervous when I take a time limited assessment <i>(Saya merasa gugup pada saat mengerjakan ujian yang dibatasi oleh waktu)</i>				
22	I feel challenged and excited when I answer time-limited questions <i>(Saya merasa tertantang dan bersemangat saat menjawab pertanyaan yang dibatasi oleh waktu)</i>				
23	I have enough time to check my answers before the results are sent <i>(Saya punya cukup waktu untuk mengecek jawaban saya sebelum hasil ujian dikirim)</i>				

**Indicator: FEEDBACK OF GOOGLE FORM** (based on the theory of Dermo (2009))

<b>No</b>	<b>Statements</b>	<b>S D 1</b>	<b>D 2</b>	<b>A 3</b>	<b>S A 4</b>
24	Google form displays my test results directly <i>(Google form menampilkan hasil ujian saya secara langsung)</i>				
25	I got good scores when doing online assessment using Google Forms <i>(Saya mendapat nilai yang baik ketika ujian menggunakan Google form)</i>				
26	The value put out by Google forms is very fair <i>(Nilai yang dikeluarkan oleh Google form sangat adil)</i>				