The Best Platform for Effective Classroom Engagement in online Learning during Pandemic Covid-19 in Indonesia

John Paulus Abineno

Pradita University, Banten, INDONESIA
john.paulus@student.pradita.ac.id

Abstract. This research was trying to find the best online learning method for the learning process in the online class. As we found out a lot of platforms that students and teachers can use. These platforms have strengths and weaknesses. At this opportunity, we are looking to compare three platforms that use by the teacher and student during this online class. Those platforms are Google Classroom (GC), Nearpod (Np), and also Ruang Guru (RG). We compare seven criteria as like easy to use, many participants, adding others tools, compatibility, sound and video quality, quality of the features, and the last one is bandwidth. This method is questionaries through Google form. And reach out to 18 participants, 9 teachers, and 9 students in SMAK 8 BPK PENABUR. The result showed a closed comparison between GC and Np, but the best is Platform is GC.

Keywords: Online class, Platform, Google Classroom, Nearpod and Ruang Guru.

1. Introduction

According to worldometers.info that the total number of cases of the coronavirus in Indonesia is already achieved more than 3 million until July 2021. With the total death around 84.766 people and those who can survive and recovered almost 2.549.692 people. And still a lot of people fighting for the negative warrior of the coronavirus. The highest number of coronavirus is already reached 60.000 per day. It happens because the spread of the coronavirus with the delta variant can transmit very fast from one person to the others person especially in the closed room and closed contact of people below 1 meter. People can easily be infected with the virus through the aerosol and droplet that contains the virus that people inhaled or come into contact with their nose, mouth, and eyes.

In this situation, the conventional learning process can't run as usual because people need to keep social distancing and also we need to restrict the number of people in one room. The learning process in the class needs to stop for the number of days, months, and event year. Schools in Indonesia are not allowed to have face-to-face learning but need to be held online. The students and teachers are not allowed to be in school present physically for the learning process because they need to do it in their home/place with the zoom meeting, google meet and also others media online.

Because of those reason teacher need to do online classes with the online learning tools that can help them manage the learning process. At this moment we compare three platforms of online learning. Those three are used by the teacher and student during this day. We would like to give an explanation about those three platforms such as like;

a. GC. GC is free web service that the teachers and student can use that provide learning process with a lot of learning tool. Teachers and students can use it online in any place and in every condition as long they connect with the internet. With GC teachers can send the material about the lesson, give

assignments and also do the grading and return the student result. GC is also connected with Google docs, google, google form, google sheet and etc.

b. Np is the website and digital application that the teachers and students can use to deliver the material and engage with the lesson. Np provides a lot of tools and an interactive learning process that can make the teacher to slide show the material and also give the opportunity for the student to get involves with the lesson. Students can jump in and interact with the lesson when the teachers provide activities. That's why Np is good also for the formative assessment whether to make sure they follow us with the process of the learning in the real time.

c. RG is an online platform that provides a national curriculum for the student. This is a new start-up company that works in the education field that has support teachers and students to interact and understand the lesson better. Many features in RG including video tutorials, virtual classes, etc.

From the three platforms, we are going to find which platform is the best one that can accommodate the process of learning run well and more lively as it is in the class. In the learning process, teachers not only deliver material but also give assignments, homework, and others thing to strengthen the lesson for the student. In order to do that we set the criteria based on the usefulness of the platform for the teacher and student.The categories that we use to differentiate and to get the result what is the best platform for online learning are:

a. *Easy to use*. This platform is easy to use by the teachers and students. The instructions or the way they use it is user-friendly. They can work with the platform without facing any difficulty

b. *Many participants*. The platform provides enough participants for the teachers to start the class.

c. *Adding others tools*. Teachers can use and connect with the other resources that they collaborate with it

d. *Compatibility*. The platform can access from any device without facing any challenges.

e. *Sound and video quality*. When the teachers sharing the file that contain the form at of the video, the sound, and the video can run well

f. *Quality of the features*. This platform provides many features that the teachers and students can use that will help them interact more with the lesson

g. *Bandwidth*. The platform does not cost a lot of internet quota to help the teachers and students manage their internet quota.

2. Method

The study of the research is using multiple criteria decision analysis. We provide a lot of criteria for the respondent to choose the best platform. We are using a google form to collect the data from the teacher and student in SPK SMAK 8 PENABUR Jakarta. As shown in figure 1.
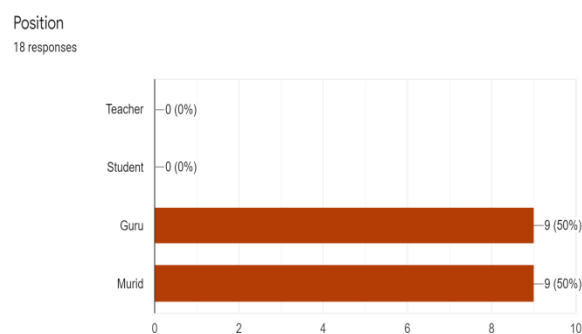

Fig 1. Respondent Profile

We use the Likert scale to collecting the data by put the numbers for each standard. So numbers 1 to 10 are the scores for each platform that the respondent needs to choose. The meaning of the number is from Lower numbers show not good and bigger numbers show very well. In the google form, we put all the platforms together with the criteria. So there is seven-question because we want to know their opinion regarding all the criteria for the Google Classroom, Nearpod, and also Ruang Guru. The respondent needs to choose their opinion by selecting the number from lower to the biggest that shows the functions of the
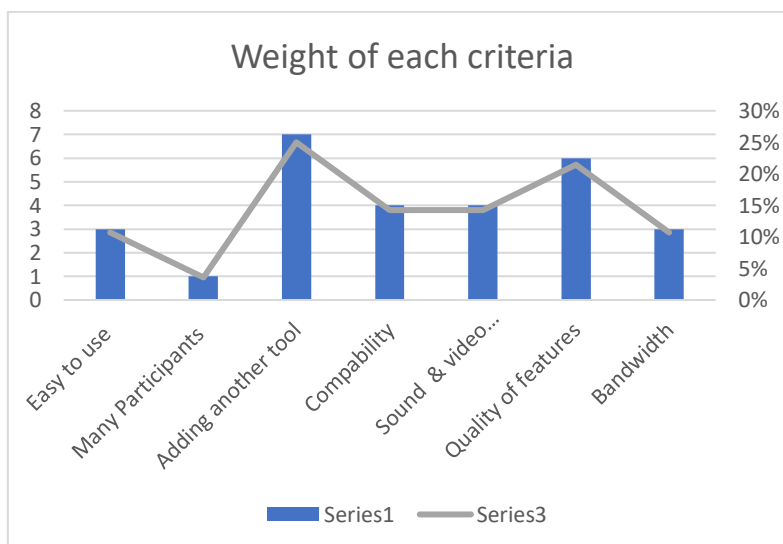
platform.

Fig 2. Example of the questions

3. Findings

During online learning, the platform that teachers use can help them to maximize their ability in delivering the material. So the best way to do that is by setting the criteria to know which platform is very useful for the online class. We have decided on seven criteria to assess the platform and also to give weight for every criterion as stated below. You can see the biggest weight is adding another tool about 25%. It is because teachers need a lot of creativity to make the lesson interesting by adding another media to the platform that she/he uses.

A. Result

A. Easy to use	11%	
B. Many participant		4 %
C. Adding another tool	25%	
D. Compability	14%	
E. Sound and video quality		14%
F. Quality of features	11%	
G. Bandwidth	11%	

Table 1. Weight of each criteria

Through the calculation that we do, here the result of the questionaries that we share with the teacher and student. Once again we are using Microsoft excel to help us in making the average of the result as shown in Table 2 below.

Table 2. Platform

100

Platform	Easy to Use
Google Classroom	9.25
Nearpod	8.62
Ruang Guru	6.25
	Quantity of Participant
Google Classroom	9.75
Nearpod	8.75
Ruang Guru	6.75
	Adding others tools
Google Classroom	9.06
Nearpod	8.12
Ruang Guru	6.43
	Compability
Google Classroom	9.37
Nearpod	8.93
Ruang Guru	7.5
	Good sound and video quality
Google Classroom	9.18
Nearpod	9
Ruang Guru	7.5
	Quality of features
Google Classroom	8.87
Nearpod	8.62
Ruang Guru	7.31
	Bandwidth
Google Classroom	8.62
Nearpod	7.75
Ruang Guru	7.18

After we calculate Google Classroom gets the highest results in the seven existing criteria because teachers and students are already familiar with the platform and also they knew already as the free platform that helps the teacher and student to study well during online learning. According to Donal Yates [1], Google Classroom also will not put advertising and collecting data, so it will be saved and private for the participant. Yates also adds that in Google classroom teachers will be able to monitor each student's progress by checking the student assignment and return it. A student also can be known what mistake that they did because a teacher can return their work and make a correction to it. The most important thing teacher also can give an announcement to the class for any information that the student needs to know.
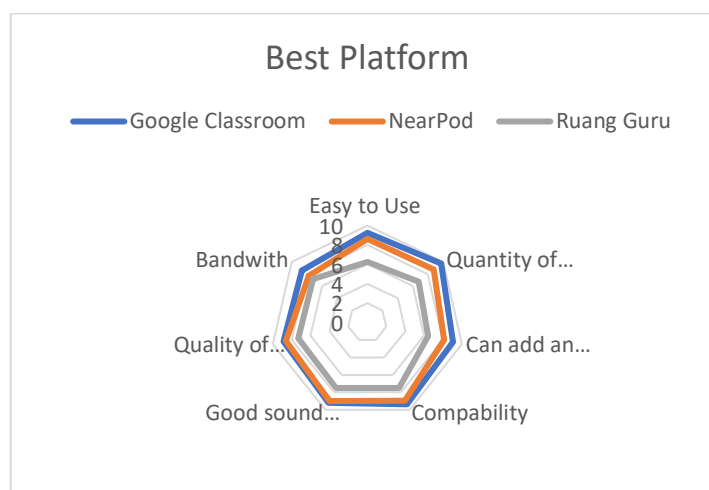
Fig 3. Best Platform is Google Classroom

4. Discussion

According to Shivangi Dhawan [2] in online learning seems students can be boring and need more interactive engagement with the lesson and the teachers. Even though a lot of technologies or the platform for online learning still it can create many difficulties for the student, such as like downloading, login and video and sound quality and etc. So because of that, online learning platform needs updates in order to create better interaction between students and teachers to achieve the highest potential of the student and also students can practice what they learn.

So it is very important for the teacher to use the right platform for online learning. According to Priyono [3] in his Journal that quate Abrami stated that there are three types of interactions in online learning, that we can categorize as a pattern of student-student interactions, student teacher interactions and student-content interactions.These three are very important to know and to implement successful online learning. Student-content interactions include reading informational texts, using study guides, watching learning videos, interacting with multimedia, participating in simulations and doing assignments. In an online learning system, the teachers do not monitor as closely as in conventional learning in schools. However, the teachers are required to try to provide educational and fun teaching so then the online learning feels like learning directly from the teacher.

This is the goal of this study to find out he best tool for online learning. And through this study, proves that Google Classroom match or represents the need of the teachers for providing the best platform. So the Google classroom gets the highest score. Google Classroom has become the best Platform. But it does not mean the other platform such as Nearpod and Ruang guru did not provide the same tools. Nearpod and Google classroom scores seem almost equal. But still, many respondents choose google classroom than Nearpod. Nearpod itself is like a slide show presentation that you can add more activities and content.

When we compare Google classroom with Ruang guru, we can see Ruang Guru gets the lower score from each criterion. It may happen because Ruang Guru is not too familiar to the teacher and student. Ruang Guru is a new platform that provides a lot of video tutorials and also free virtual classes and other media for online learning. Ruang guru score is also categorized as good even though can not balance with Google classroom and also Nearpod.

5. Conclusion

Through this study, we found out after comparing seven criteria about the best platform by doing the comparison between Google Classroom, Nearpod, and Ruang guru. The best platform that the teacher and student use during this pandemic of covid 19 is Google Classroom. Google Classroom can fulfill those criteria and became the best platform for online learning. The writer suggests that to help a teacher to

improve the learning process in the virtual class during online learning. Teachers and students should use Google Classroom as the online learning platform that matches all the criteria. The people in education can encourage teachers in Indonesia to use this Google Classroom to help a student learn better and more interesting and also to help them manage their responsibility to study well during this pandemic.

References

[1] Yates, Donal, "Google Classroom " Easiest Teacher's Guide to Master Google Classroom," pp 8-9 , 2016.
[2] Dhawan, Shivangi. Online learning: A Panacea in the time of Covid-19 Crisis. June 20, 2020.
[3] Febrianto, Priyono Tri, Siti Mas'udah & Lutfi Apreliana Megasari." mplementation of Online Learning during the Covid-19 Pandemic on Madura Island, Indonesia" International Journal of Learning, Teaching and Educational Research Vol. 19, No. 8, pp. 233-254, August 2020 https://doi.org/10.26803/ijlter.19.8.13.