Students' Perception Towards English Course In Asynchronous Online Learning Through Whatsapp During Covid- 19 Pandemic

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ABSTRACT

The Government of Indonesia makes policy by implementing learning with online system through several online platforms. This study raised the topic about students' perception of English course during online learning during the Covid-19 pandemic with the online Whatsapp platform used by grade 8 students of SMP Negeri 1 Perak, Jombang. 30 students who attended English course participated in the study. This study adopted the theory of Technology Accaptance Model by Davis and Wiyaka,., Mujiyanto, J., &Rukmini, D.which involves the perception of ease of use, perception of usability, attitude technology to use, and behavioral intentions to be used as indicators to obtain student perception data through questionnaires and interviews. This study used descriptive case studies using purposive sampling techniques by taking 30 respondents from grade 8 H students at SMP Negeri 1 Perak, Jombang. Online questionnaires and interviews are used to collect data on students' perceptions by using the online Whatsapp platform. While qualitative data was collected using face-to-face interviews with 6 students. The results of this study showed a positive perception of grade 8 H students from SMP Negeri 1 Perak who took English course using the online Whatsapp platform. Overall, this study confirms that education with an online system has good potential in the learning and teaching experience in students of SMP Negeri 1 Perak who take English course based on four indicators, perception of ease of use, perception of usability, attitude technology to use, and behavioral intentions. Further studies may refer to other methods and media in learning through the online system in ICT integrated learning programs suitable for junior and high school.

Key Words: Online learning, asynchronous, students' perception

1. INTRODUCTION

Nowadays, the world is being hit by a global pandemic, namely covid-19 or corona virus. According to UNESCO as many as 13 countries in the world including China, Italy and Japan have closed schools across the country affecting nearly 290 million students in the world to cope with the spread of the Covid-19 virus. And there are also hundreds of thousands of schools closed to prevent the spread, about 68 million students do learning from home, and about four million teachers do remote teaching activities [1]. It brings new challenge in education of this country to do online learning. During the pandemic, teachers and students in primary and secondary schools must be equipped with web-based learning methods. Implementing Mobile Assisted Language Learning (MALL) in the English course learning method is one of the best methods that can be achieved.

Teachers should be able to use support technology, problem-based methods, and higher-level thinking skills to integrate learning strategies. Various online platforms widely used by teachers include Whatsapp, Quipper, Zoom, Google Classroom, Edmodo, etc. There are many online learning platforms,

which are more common in primary and secondary schools, namely "Whatsapp". Because this application is easy to use, and many applications have been installed by teachers and students even before online learning methods [2]. The use of social networking tools can accommodate feedback between teachers and students, enabling them to communicate more effectively [3].

The online learning mode is divided into two modes: synchronous and asynchronous online learning. These methods providing e-content in an online classroom, instructors. learners. interactive tools, modes of interaction and many other factors. In this case, classroom modes used asynchronous since it takes advantage of Mobile Assisted Language Learning (MALL) to developing mobile courses requires understanding the delivery platform and good teaching habits at the same time.According Manalu [4] to perception of the students' which the result with more positive perception will be better archieved.Based on previous study above, the researcher interested in investigating the learning process during pandemic Covid-19 by using Whatsapp as asynchronous method in online learning in SMP Negeri 1 Perak.

Quinn [5] states that mobile or online learning is defined as a new technology learning using mobile devices. When using the online format, students reported that they benefited from the flexibility, convenience, and enhanced collaboration and participation capabilities of the online platform (Song et al., 2004). Online learning requires access and learning. Being comfortable with the Internet may not explain the satisfaction with online learning [6]. There are various ways to encourage communication to have positive results in online learning. According to Song et al [7] when an instructor fosters a positive learning environment interaction among students, creating a perception or sense of online community and online students are more likely to report feelings of connecting with their peers and instructors. Effective teaching behavior is defined as teachers' behavior that has been shown to have an impact on student outcomes (i.e., motivation, engagement, achievement) [8].

Learning can be done in various ways such as online learning (Daring). According to Haerazi et al. [9], learning refers to what happened to us in the past. They enable learners to interact with elearning materials and interact with

others in a cooperative way to seek knowledge. Riischoff [10] maintains that "learning activities are always social activities with learners cooperating and working together." This form of learning involves self-paced or independent learning and provides greater, flexibility is higher than synchronous learning This methods. flexibility provides participants with multiple options, choice to enable them to learn at their own pace and time [11]. Asynchronous learning provides participants with a way to easily access available resources. They need the resources and information to make it easier and more successful learning experience. Especially in this case, because the learning activities are completed in their own time, advance at the speed you want [12].

By using synchronous asynchronous tools, learning can be achieved through help of the ICT, students/teachers are not in the same space. In addition, students can decide which method is best for them. Moreover, students who may not necessarily be interested in real things time interaction, but only the acquisition or knowledge, asynchronous.A learning method that allows them to learn at their own pace, which is not the situation in a regular classroom. The Technology Acceptance Model introduced by F. D. Davis [13] is one of the most popular research models for predicting the use and acceptance of information systems and technologies by individual users. . In the TAM model, there are two perceived factors of usability and convenience felt in the TAM model, there are two factors that are perceived usefulness and perceived ease of use is relevant in the behavior of The computer use. Technology Model calculates Acceptance the common factors that determine a user's acceptance of the technology and hence this model has the power to explain and predict "user behavior across multiple end-user computing technologies and user populations" while simultaneously being "both parsimonious and TAM theoretically justified" [14]. theorizes that two trust variables, Perceived Ease of Use (PEOU) and Perceived Usefulness (PU) are fundamental determinants of a user's behavioral intention to use technology Aristotle's statement about [15].perception is related to changes in sensory organs, which is caused by the object of perception.

The researcher proposed argument about Aristotle's theory of perception changed the sense organs and this is caused by the perception object, which means everyone has a feeling of likes and dislikes about the intended object. In this study is about students' perception towards online learning during the pandemic Covid-19. Students with positive experience in these administrative departments may be more satisfied, which may further lead to the spread of positive word of mouth, build loyalty among existing students and attract potential students [16]. Understanding students' perceptions is relatively important for determining what they want, because different generations show different levels of acceptance. Judging from the existing references, perception is very similar to belief, because only when something is also considered correct will it be considered correct.

2. RESEARCH METHOD

1.1. Research Design

The research design used in a descriptive case study because this study investigates on a single case produce an in-depth description of implementing asynchronous method in 8H class of

English course in SMPN 1 Perak. To answer the research questions, the researcher employ descriptive qualitative which is defined by Creswell and Yin [18] research using case study design can use a mix of data namely quantitative and qualitative data to answer the formulation of research problems. The qualitative data was collected using interview of some students and quantitative data was collected using an online questionnaire posted in Google form.

1.2. Population

This study took the participation of eighth grade 8H students of English course in SMP Negeri 1 Perak. There are 30 students, 15 males and 15 females registered in English courses in 8H class based on online class. Their ages ranged from 12 to 14. They enrolled in Junior High School.

1.3. Data Collection Procedure

There are several procedures applied in this research in collecting data. The researchers employed some tools to collect data. The first quantitative research tool includes a questionnaire using a 5-point Likert

Response Scale, where 4: strongly agree, 3: agree, 2: disagree, and 1: strongly The questionnaire disagree. was administered to clarify students' opinions on using Whatsapp to use online platforms in English courses. The tested items include perceived ease of use (6 items), perceived usefulness (6 items), attitude towards use (3 items) and behavioral intentions (2 items). The second, qualitative research instrument using nine questions include perceived ease of use, perceived usefulness, attitude towards use and behavioral intentions. The researchers determined that there are only 6 students who will be sampled in the interview. The samples are selected by the researcher based on the ability of students with details of two students with the highest grades, two students with moderate grades, and two students with the lowest grades. The tested items include perceived ease of use (3 items), perceived usefulness (3 items), attitude towards use (2 items) and behavioral intentions (1 item).

1.4. Data Analysis

The data were analyzed using case study analysis to identify overall themes and patterns throughout the data.

The identified themes were

crosschecked independently by the researcher, with references to the quantitative analysis by the questionnaires and qualitative analysis by the interviews.

3. RESULT AND DISCUSSION

This section presents research questions on

and discusses the findings related to the students' perception towards English course in asynchronous online learning through Whatsapp during Covid- 19 pandemic.

The results of the research from questionnaire taken from 30 students and interview taken from 6 students in 8 H of SMP Negeri 1 Perak, Jombang who were taking English Course. In order to answer research question, the findings from the students' questionnaire is shown in Table 1, 2, 3 & 4. While students' interview is shown in Table 5, 6, 7 & 8.

1.1. Results

Table 1 Students' Perception on the Use of Whatsapp Application In Perceived Ease of Use (POU)

No.	Question	Strongy	Agree	Disagree	Strongy
		agree			disagree
1.	I think using e- learning (Whatsapp) is easy for me	16,7 %	70 %	13,3 %	0
2.	I feel that I have become very capable in using e-learning (Whatsapp)	0	80 %	20 %	0
3.	I will find that e-learning (Whatsapp) can interact with it flexibly	0	76,7%	20%	3,3 %
4.	Learning is easy for me	0	83,3	16,7 %	0

5.	I can easily accomplish what I	3,3%	63,3	30 %	3,3 %
	want to do through e-learning		%		
	(Whatsapp)				
6.	I feel my lack of experience to	0	76,7	23,3 %	0
	determine the ease of use of e-		%		
	learning (Whatsapp) is limited				

The Percentage of Perceived Ease of Use (PEU) involves 6 questions as the following. The first question is that I feel that using online platforms based learning (Whatsapp) is easy for me. The finding showed that Strongly agree gained 5 persons (16,7%), Agree gained 21 persons (70%), Disagree gained 4 persons (13,3%), Strongly disagree 0 person (0%). The second question is that I feel that I have become very capable in using e-learning (Whatsapp). The finding showed that Strongly agree gained 0 person (0%), Agree gained 24 persons (80%),Disagree gained 6 persons (20%), Strongly disagree 0 person (0%). The third question is that I will find that elearning (Whatsapp) can interact with it flexibly. The finding showed that Strongly agree gained 0 person (0%), Agree gained 23 persons (76,7%), Disagree gained 6 persons (20%), Strongly disagree 1 person (3,3%).

The fourth question is that Learning is easy for me. The finding showed that Strongly agree gained 0 person (0%), Agree gained 25 persons (83,3%), Disagree gained 5 persons (16,7%), Strongly disagree 0 person (0%). The fifth question is that I can easily accomplish what I want to do through e-learning (Whatsapp). The finding showed that Strongly agree gained 1 person (3,3%), Agree gained 19 persons (63,3 %), Disagree gained 9 persons (30%), Strongly disagree 1 person (3,3 %). The sixth question is that I feel my lack of experience to determine the ease of use of e-learning (Whatsapp) is limited. The finding showed that Strongly agree gained 0 person (0%), Agree gained 23 persons (76,7 %), Disagree gained 7 persons (23,3%), Strongly disagree 0 person (0 %).

Table 2 Students' Perception on the Use of Whatsapp Application
In Perceived Usefulness

No.	Question	Strongly	Agree	Disagree	Strongly
		agree			disagree
1.	Using e-learning (Whatsapp) in my English courses can make me complete tasks faster	10 %	63,3 %	23,3%	3,4 %
2.	Using e-learning (Whatsapp) can improve my English course performance	0	70 %	26,7 %	3,3 %
3.	Using e-learning (Whatsapp) can increase my productivity	3,4 %	63,3 %	33,3 %	0
4.	Using e-learning (Whatsapp) can improve my efficiency in English courses	6,7%	63,3 %	30 %	0
5.	Using e-learning (Whatsapp) will make my English lessons easier	3,3 %	76,7 %	20 %	0
6.	I will find e-learning (Whatsapp) useful in my English courses	0	90 %	6,7 %	3,3 %

The Percentage of Perceived Usefulness involves 6 questions as the following: The first question is that using e-learning (Whatsapp) in my English courses can make me complete tasks faster. The finding showed that Strongly agree gained 3 persons (10 %), Agree gained 19 persons (63,3 %), Disagree gained 7 persons (23,3%), Strongly disagree 1 person (3,3 %). The second question is that using e-learning (Whatsapp) can improve my English

course performance. The finding showed that Strongly agree gained 0 person (0%), Agree gained 21 persons (70 %), Disagree gained 8 persons (26,7 %), Strongly disagree 1 person (3,3 %).

The third question is that Using e-learning (Whatsapp) can increase my productivity. The finding showed that Strongly agree gained 1 person (3,4 %), Agree gained 19 persons (63,7 %),

Disagree gained 10 persons (33,3 %), Strongly disagree 0 person (0%). The fourth question is that using e-learning (Whatsapp) can improve my efficiency in English courses. The finding showed that Strongly agree gained 2 person (6,7 %), Agree gained 19 persons (63,3 %), Disagree gained 9 persons (30 %), Strongly disagree 0 person (0%). The fifth question is that using e-learning (Whatsapp) will make my English lessons easier. The finding showed that Strongly agree gained 1

person (3,3 %), Agree gained 23 persons (76,7 %), Disagree gained 6 persons (20 %), Strongly disagree 0 person (0%).

The sixth question is that I will find e-learning (Whatsapp) useful in my English courses. The finding showed that Strongly agree gained 1 person (3,3%), Agree gained 27 persons (90 %), Disagree gained 2 person (6,7 %), Strongly disagree 0 person (0%).

Table 3 Students' Perception on the Use of Whatsapp Application
In Attitude Toward Usage

No.	Question	Strongly	Agree	Disagree	Strongly
		agree			disagree
1.	I believe that using e-learning (Whatsapp) in English courses is a good idea	13,3 %	73,3 %	10 %	3,3 %
2.	I like the idea of using e- learning (Whatsapp) in English courses	6,7%	76,7 %	16,7 %	0
3.	Using e-learning (Whatsapp) in English courses is a positive idea	10%	83,3 %	6,7 %	0

The Percentage of Attitude Toward Usageinvolves 3 questions as

the following: The first question is that I believe that using e-learning

(Whatsapp) in English courses is a good idea. The finding showed that Strongly agree gained 4 persons (13,3 %), Agree gained 22 persons (73,3 %), Disagree gained 3 persons (10 %), Strongly disagree 1 person (3,3 %). The second question is that I like the idea of using e-learning (Whatsapp) in English courses. The finding showed that Strongly agree gained 2 person (6,7%), Agree gained 23 persons (76, 7%),

Disagree gained 5 persons (16,7%), Strongly disagree 0 person (0%).

The third question is that using e-learning (Whatsapp) in English courses is a positive idea. The finding showed that Strongly agree gained 3 person (10%), Agree gained 25 persons (83,3 %), Disagree gained 2 persons (6,7 %), Strongly disagree 0 person (0%).

Table 4 Students' Perception on the Use of Whatsapp Application
In Behavioral Intention to Use

No.	Question	Strongly	Agree	Disagree	Strongly disagree
		agree			uisagiee
1	I plan to use e-learning (Whatsapp) in the future	3,3 %	76,7 %	16,7 %	3,3%
2	Assuming I can use e-learning (Whatsapp) and I plan to use it	3,3%	70 %	26,7%	0

The Percentage of Behavioral Intention to Use involves 2 questions as the following. The first question is that I plan to use e-learning (Whatsapp) in the future. The finding showed that

Strongly agree gained 1 persons (3,3 %), Agree gained 23 persons (76,7%), Disagree gained 5 persons (16,7 %), Strongly disagree 1 person (3,3 %).

Table 5 Students' Perception on the Use of Whatsapp Application
In Perceived Usefulness

No.	Question	Quotations
1.	What do you feel after using Whatsapp app so far?	Normally, there is no significant impact because it is already used to using whatsapp application.
2.	Do you think using learning through Whatsapp helps in understanding English language learning materials during this time?	They think it can be a little helpful in understanding the lesson.
3.	Do you get the benefit of using Whatsapp in English language learning? Please explain it!	There is a little bit benefit because of the lack of smooth communication with the teacher. So it's hard to understand the material.

The result of interview of Perceived Usefulness 3 involves questions as the following. The first question is that "What do you feel after using Whatsapp app so far?" The finding showed that they are used to using whatsapp app every day. So, there is no significant impact because it is already used to using whatsapp application. The second question is that "Do you think using learning through Whatsapp helps in understanding English language learning materials

during this time?" The finding showed that they think it can be a little helpful in understanding the lesson. The third question is that "Do you get the benefit of using Whatsapp in English language learning? Please explain it!" The finding showed that there is a little bit benefit because of the lack of smooth communication with the teacher. Based on the findings of research where Whatsapp is commonly used by students and quite helpful in learning during online learning.

Table 6 Students' Perception on the Use of Whatsapp Application

In Attitude Toward Usage

No.	Question	Quotations		
1.	Do you think using Whatsapp has	Positif:		
	a positive or negative impact in	1. Easy to use the app		
	learning English?	2. Easy to do tasks		
		Negative: 3. Sometimes network errors 4. Do not understand the material		
2.	After using Whatsapp do you feel more diligent or lazy in learning English?	 More diligent Lazy, because they do not really understand the material 		

The result of interview of Attitude Toward Usageinvolves 2 questions as the following. The first question is that "Do you think using Whatsapp has a positive or negative impact in learning English?" The finding showed that there are some positive and negative impacts. Positive impacts are easy to use the app and easy to do tasks. In everyday life, they are used to using Whatsapp application. Then, during online learning they do not find it difficult to follow English lessons using Whatsapp. While negative sometimes impacts are network errorsand they do not understand the material. Sometimes there is a network system disruption due to some things such as bad weather or interference from the center. Thus, some students are

late for online classes when system disruption occurs and make them do not understand and understand the materials provided by the teacher. However, to overcome this, students can ask the teacher again about the material that has not been understood so that students can understand the material left behind in the event of a network system disruption.

The second question is that "After using Whatsapp do you feel more diligent or lazy in learning English?" The finding showed that most of them are become more diligent during online learning. By using whatsapp application, most students feel increasingly diligent learning. It's easy and simple to use, easy delivery and delivery of tasks by teachers and the

students, as well as the work of tasks that can be done anywhere and time is also more flexible. So, students like to follow English learning through Whatsapp during online learning.

Based on the findings in this study, the students think that whatsapp has a positive and negative side in learning and also makes them more diligent in learning because it makes it easier to do tasks.

Table 7 Students' Perception on the Use of Whatsapp Application
In Behavioral Intention to Use

No.	Question	Quotations
1.	Do you think the Whatsapp application can be used continuously in Learning English?	 Yes, it can be used continuously because it is easy. Yes, because it is easy to learn.

The result of interview of Behavioral Intention to Useinvolves 1 question as the following: The first question is that "Do you think the Whatsapp application can be used continuously in Learning English?" The finding showed that whatsapp can be used continuously because it is easy. Based on the findings in this study, the students argued that whatsapp can be

used continuously in English learning. The findings found by the researcher were accepted by a previous study from Wiyaka., Mujiyanto, J., & Rukmini, D. (2018)the study "Students" Perception on the Usefulness of ICT-Based Language Program", which in the study previous using the theory from (1989)Technology Davis about Acceptance Model (TAM) [19].

1.2. Discussion

The results of the research as portrayed in table 1 to 7, could be discussed as the followings by paying attention to the degree to which a person

believes that using a particular system would be free from effort as suggested by Davis [20]. If the technology is easy to use, then the obstacles would be overcome. If it is not easy to use and the

interface is complicated, then no one would take a positive attitude towards it. The researcher concluded that Whatsapp has ease of use but is still not fully effective. In addition, they still agree to use Whatsapp because it is easy to use and has also become accustomed to using it. Users believe that a given application may be successful, but they may, at the same time, believe that the technology is too hard to use and that the performance benefits of usage are outweighed by the effort of application (Davis & Arbor 1989). Perceived ease of use consists of the following determinants: easy to use, easy to read, using understandable terms, able to link to search for related information and easy to return to previous page.

According to Davis et al. [20], perceived usefulness refers to consumers' perceptions regarding the outcome of the experience. Perceived usefulness is in dealing with students who believe that using an online platform (Whatsapp) can improve their academic performance. Based on these two data, it can be seen that almost all students think that using Whatsapp

helps to improve their understanding of English course materials. A tool would be used when it brings about improvement in the learning performance.

Attitude towards usage (ATU) has determined the intention to use a specific program or learning tool. Based on these two data, it can be seen that almost all students think that using Whatsapp is a good idea to improve their understanding of English course materials. Behavioral Intention to Use is a tendency to behavior to keep using a technology. Interest in user behavior is an attitude or behavior that tends to technology (Davis, 1989). Regarding the figure 4 above, researcher based on the questionnaire can infer that ICTbased learning can be recommended as a viable application to support the learning classroom process in the future. Most students plan to use Whatsapp as an e-learning tool in the future. While based on the interview, most of the students stated that Whatsapp can be used continuously because it is easy in English course in the future.

4. CONCLUSION

Based on the data analysis and discussion in the previous chapter, the researcher could like to give conclusion as follow Positive perception of the students about using Whatsapp to use online platform in English course that easily to use for them. While, negative perceptions of students including a lack of understanding of English subject matter during online learning and their achievement scores are also decreasing. The result shows that students of 8H in **SMPN** Perak, Jombang hold positive

perceptions the of towards use Whatsapp. With this finding, students maintain that Whatsapp makes their learning easier and useful for their English course. Although there are some inputs related to the adjustment of materials related to English courses that are meeting the needs of students, as well as time adjustments between faceto-face meetings and online, most students are still interested in using Whatsapp as a distance education during the Covid-19 pandemic. Students also importance realize the of using technology to support their future learning process.

AUTHORS' CONTRIBUTIONS

Thanks to all those who helped the research, especially teachers and

students of SMP Negeri 1 Perak Jombang

REFERENCES

[1] Mendikbud. (2020a).
SuratEdaranMendikbud:
Pelaksanaan Kebijakan
Pendidikan dalam Masa Darurat
Penyebaran Corona Virus
Disease(COVID-19).
Retrieved from
http://kemdikbud.go.id/main/file
s/download/51e9b72ef92c6d8

[2] Bere, A. (2012). A comparative study of student experiences of ubiquitous learning via mobile devices and learner management systems at a South African university. Proceedings of the 14th Annual Conference on World Wide Web Applications.CapePenisula Technology, University of Durban.Retrieved from http://www.zaw3.co.za/index.ph

- p/ZAWWW/2012/paper/viewFile/537/160.
- [3] Archambault, L., Wetzel, K., Foulger, T. S., & Williams, M. K. (2016).Professional development 2.0.Journal of Digital Learning in Teacher Education, 2974(April), 2153–2974.https://doi.org/10.1080/21532974.2010.10784651
- [4] Manalu, B.,H. (2019). Students' Perception of digital texts Reading: A case research at the English Education Department of Universitas Kristen Indonesia. Journal of English Teaching, 5(3), 191-203. http://doi.org/10.33541/jet.v5i3.1312
- [5] Quinn, C. (2000). mlearning:
 Mobile, wireless, in your pocket
 learning. Linezine
 2000.Retrieved 25 July 2008
 from
 http://linezine.com/2.1/features/cqmmwiyp.htm.
- [6] DeBourgh, G. A. (1999).Technology is the tool, teaching is the task: Student satisfaction in distance learning. Paper presented at the meeting of the Information Society for Technology & Teacher Education International Conference, San Antonio, TX.
- [7] Song, L., Singleton, E.S., Hill, J.R. and Koh, M.H.(2004). Improving online learning: student perceptions of useful and challenging characteristics [Electronic version]. The Internet and Higher Education, 7, 59-70.

- [8] Van de Grift W. (2007). Quality of teaching in four European countries: a review of the literature and application of an assessment instrument. Educ. Res. 49 127–152. 10.1080/00131880701369651
- [9] Haerazi, H., &Irawan, L. A. (2020).The effectiveness of ECOLA technique to improve reading comprehension in relation to motivation and self-efficacy.International Journal of Emerging Technologies in Learning (IJET), 15(01), pp. 61-76.doi:

 http://dx.doi.org/10.3991/ijet.v15i01.11495
- [10] Riischoff, B. (2009) Outputoriented language learning with digital media', in Thomas, M. (2009) Handbook of Research on Web 2.0 and Second Language Learning, London: Information Science Reference, 42-59.
- [11] Kocur, D., &Kosc, P., (2009). Elearning Implementation in Higher Education. Acta_Electrotechnica etInformatica, Vol. 9, No. 1, pp20-26
- [12] Hrastinski, S., (2008). A study of asynchronous and synchronous e-learning methods discovered that each support different purposes. Retrieved March 27, 2015 from http://net.educause.edu/ir/library/pdf/eqm0848.pdf.
- [13] Davis, F. (1989).Perceived usefulness, perceived ease of use, and user acceptance of

- information technology. MIS Quarterly, 13, 3, 319-340.
- [14] Davis B & Wagner E D (2009). The Evolution of LMS: From Management to Learning.
- [15] Davis B & Wagner E D (2009). The Evolution of LMS: From Management to Learning.
- Manawong,S.(2016).Und ergraduate students' perception of Edmodo as a supplementary learning tool in an EFL classroom. Silpakorn University Journal of Social Science, Humanities and Art, 16(2), pp. 138-162. https://doi.org/10.14456/sujsha.2 016.27

- [17] Yin, R. (2014). How to Know Whether and When to Use the Case Study As a Reserach Method. Case Study Research Design and Methods.
- [18] Wiyaka, ., Mujiyanto, J., &Rukmini, D. (2018). Students' Perception on the Usefulness of ICT-Based Language Program. English Language Teaching, 11(2), 53. https://doi.org/10.5539/elt.v1 1n2p53
- [19] Davis, F. (1989).Perceived usefulness, perceived ease of use, and user acceptance of information technology. MIS Quarterly, 13, 3, 319-340.
- [20] Davis B & Wagner E D (2009). The Evolution of LMS: From Management to Learning.