# ID 20 by Miharni Tj

**Submission date:** 21-Feb-2022 04:03PM (UTC+0700)

**Submission ID:** 1767458374

File name: ICEBM\_2021\_-\_Paper\_ID\_20\_-\_Final.docx (128.5K)

Word count: 3694 Character count: 21717

## The Roles of Effort Expectancy, Attitude, and Service Quality in Mobile Payment Users Continuance Intention

Sellyana Winata<sup>1</sup> Miharni Tjokrosaputro<sup>1\*</sup>

<sup>1</sup>Faculty of Economics and Business, Universitas Tarumanagara, Jakarta 11470, Indonesia \*Corresponding author. Email: miharnit@gmail.com

#### ABSTRACT

This study aimed to reveal whether Effort Expectancy, Attitude, and Service Quality have certain roles in the Continuance Intention of Mobile Payment Users. This study was conducted because during a pandemic like this, mobile payment applications have increased. Therefore, researcher want to know whether mobile payment users have a Continuance Intention to use mobile payment. The IS Success Model is used in this research. The data for this study was collected by a questionnaire, which is a survey method. The respondents in this study were 217 users of Mobile Payment who were recruited using a convenience sampling technique and analyzed using SPSS. The findings of this study revealed that users' attitudes and service quality had a favorable and significant impact on their intent to continue using mobile payments, while effort expectancy does not have a positive effect on continuance intention.

Keywords: Effort Expectancy, Attitude, Service Quality, Continuance Intention, Mobile Payment.

#### 1. INTRODUCTION

The development of human civilization is inseparable from the field of communication and information. The sophistication of communication and information technology that we are experiencing today is the result of an evolution that continues [1]. At this time, technology has developed along with the times where most people have used technology for various needs. One of the technological developments that greatly affects society is the use of the internet. The internet has various benefits including selling and making money, as a means of connectivity and creativity as well as banking, payment, and as a means for shopping. In addition to the use of the internet, the existence of smartphone technology also greatly affects people's lives. The role of the smartphone itself makes it easy for us to do various things such as communicating, exchanging photos and videos, and making online payment transactions [2]. Internet and smartphone technology that is increasingly advanced makes people's activities easier, including in terms of transactions. One way to make transactions 7 nline is by using mobile payments. Mobile payment is also known as mobile money transfer and mobile wallet. Mobile payment generally refers to payment services operated under financial banking regulations and carried out via mobile devices [3]. This type of mobile payment is used for goods and services by carrying out transactions, where a person's gadget must be accompanied by NFC technology so that they can make transactions via smartphones.

According to [3] transactions using mobile payments have been implemented in developing countries as a means to expand financial services for the community. Mobile payment comes with an open-platform concept. This means can be used on a variety of different platforms, both offline and online, and also be used on several other platforms and applications. This open-platform concept allows mobile payments to be connected to various forms of payment instruments, such as online balances, debit and credit cards, and vouchers. In addition, mobile payments have been utilized by various sectors, namely education, public services, social services, to street vendors [4].

In this pandemic situation, digital transactions are increasing rapidly, especially with government policies, namely maintaining distance, staying at home, to large-scale social restrictions. After the enactment of the policy, public activities such as going to banks and ATMs were hampered. Therefore, mobile payment application users have increased by 50% from January to mid-May [5]. Apart from that, mobile payment also won an award as the best mobile application. The award is in line with the mission to support the government's efforts to drive the economy and accelerate digital transformation in various sectors. For this effort, this open-platform Indonesian digital wallet was recognized as the best mobile payment application from the 2020 Seluler Award [6].

With the increase in users and the awards achieved, it shows that mobile payment users are increasing and will create a continuance intention to use mobile payment. According to [7], continuance intention is described as the user's intention to continue using a technology. Previous research has recognized that effort expectancy, attitude, and service quality are important factors in influencing users' continuance intention to continue using mobile payments [7]

However, according to research undertaken by [8] and [9], studi 2 on continuation intention are on the rise, although the majority of these studies have concentrated on industrialized countries, with only a few studies exploring continuance intention in developing countries [10]. Therefore, researchers will research in developing untries, namely Indonesia, especially in Jakarta.

Based on the explanation above, the researcher was interested to observe the phenomenon by selecting the title "The roles of Effort Expectancy, Attitude, and Service thality in Mobile Payment Users Continuance Intention". This study was expected to provide clarity on the role of Effort Expectancy, Attitude, and Service Quality in mobile payment user's Continuance Intention. In addition, this study was expected to be useful for companies engaged in the field of mobile payment systems, as information related to user responses through Effort Expectancy, Attitude and Service Quality to Continuance Intention to users of mobile payment in Jakarta, so that it can be used as reference material.

#### 1 2. LITERATURE REVIEW

This study is based on the IS Success Model. The IS Success Model views continuance intention as a beneficial impact on the use of information systems aid Pravenaa & Thomas [11] and Weng et al. [12]. When a user perceives a superior service quality (quality of service), it is very likely that they continue to use the information system [7]. Service quality also as a customer assessment of the superiority or periority of a product. In addition, many studies conducted in the past have shown that there is a beneficial impact of attitude on continuance intention as well as on use of IS (information systems) and acceptance, said Pravenaa & Thomas [11] and Weng et al. [12].

#### 2.1. Effort Expectancy

Kang [13] defined effort expectancy as ease of use of technology. When complexity decreases, users tend to increase. Users tend to prefer technology driven by simplicity with maximized efficienty. According to Alalwan [14], effort expectancy is an individual's desire to accept a new system that is anticipated not only by how much the system is positively rewarded, but also by 3 ow easy it is to use. Hutabarat et al. [15] have defined effort expectancy as the level of comfort associated with the usage of consumer technology.

According to the researchers above, it can be concluded that effort expectancy is the level of ease experienced by users in using technology and does not experience difficulties when using it.

#### 2.2. Attitude

Kotler and Armstrong [16] defined attitude as an overall individual feeling that is relatively consistent with an object or idea. Besides, Gilani [17] stated that attitude is an

evaluation of a person's perception of a product or service. Attitude is relatively more enduring and can surpass all previous experiences. Moreover, Oscar and Keni [18] tell that attitude is a customer's assessment of the services provided in obtaining a product that is the advantage of the company.

It can be concluded from several researchers that attitude is the feeling of an individual that reflects an assessment of a product or service.

#### 2.3. Service Quality

There are several definitions of service quality. Cheng [19] defines it as a measure of how well a certain level of service fulfils customer expectations, with high service quality implying that the service achieves those expectations. Furthermore, according to Mansour et al [20], service quality is an individual's judgment of how well the system accomplishes the activities required for the user's job. Furthermore, according to Lu et al [21], service quality is defined as the gap between customers' expectations for service and their percept so of actual performance. Extending this definition, service quality is an overall assessment of a service's performance in comparison to the customer's expectations of what that performance should be.

According to the researchers, it can be concluded that service quality is how good the service quality is expected by customers from a particular service.

#### 2.4. Continuance Intention

The intention of a user to continue utilizing a technology is known as continuation intention [7]. Continuance intention, according to Lu [22], is a mental state that represents an individual's decision to repeat his current activity and is similar to repurchase in a commercial environment. Furthermore, according to Chang [23], continuation intention is the willingness of individuals to utilize information systems in the future and to suggest them to others. It can be concluded that the continuance intention is the user's behavior towards a technology that will affect the continuance intention to use the technology and recommend it to others.

# 2.5. Effort Expectancy and Continuance Intention

There are several studies that study the relationship between effort expectancy and continuance intention, one of which is Bellaaj et al. [24]. This research was conducted in Saudi Arabia in the field of e-learning. The results showed that business expectations had a positive and significant effect on continuance intention. Based on Kang research [13], this research was conducted in the United States. This research is in the field of mobile apps, the result of this study is that effort expectancy positively and significantly affects continuance intention.

#### 2.6. Attitude and Continuance Intention

According to Praveena and Thomas [11], attitude is a variable that mediates between perceived usefulness, 12 eived ease of use, and perceived enjoyment of continuance intention, which means that all antecedents lead to the formation of a strong attitude that leads to continuance intention, and the result is that attitude has a positive and significant effect on continuance intention. Besides that, research conducted by Alhassan et al. [25] in the field of mobile payment services in Ghana resulted that attitude has a positive and significant effect on continuance intention. Therefore, users will have a continuance intention if their attitude towards it is positive.

#### 2.7. Service Quality and Continuance Intention

There are several studies that study the relationship between service quality and continuance intention, one of which is Yang et al. [26]. This research was conducted in China in the field of online courses. The result of this research is that service quality is positively and significantly related to continuance 2 ention. In the study conducted by Raman & Ashish [7], service quality acts as one of the important requirements for users to build a long-term relationship with service providers and has a direct influence on the continuance intention that users will experience.

# 2.8. The Relationship 2 mong Effort Expectancy, Attitude, Service Quality, and Continuance Intention

In the study conducted by Raman and Aashish [7], effort expectancy, attitude, and service quality positively and significantly affect continuance intention.

#### 3. PREVIOUS RESEARCH

In several previous research, there are previous studies that examine related variables, Raman & Aashish [7] examined the relationship bet 2 en effort expectancy, attitude, and service quality with continuance intention.

The strong influence of effort expectancy on continuance intention, according to Raman & Aashish [7], reveals that users favor effortlessness when using mobile payment systems. The various advantages of mobile payment systems, such as ease of access, simplicity of learning, and convenience of usage, are the primary motivators for consumer to continue using them [7]. The positive influence of attitude on continuation intention is similar to the findings of Deng et al. [27], who found that a pleased user is more likely to have a favorable attitude and use the product again. Users expect their mobile payment systems to be dependable, responsive, secure, and tailored, since service quality has emerged as a key indicator of continued intention [7].

#### 4. RESEARCH MODEL

The relationship between effort expectation, attitude, service quality, and continuance intention was investigated in this study. The research model explains the relationship between each construct as follows: (Figure 1). The collected data were analyzed by first determining the relationship between effort expectancy and continuance intention, then determining the relationship between attitude and continuance intention, and finally determining the influence of service quality on continuance intention.

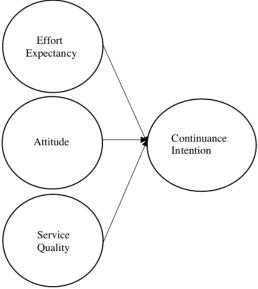


Figure 1. Research Model

This study concerns on how effort expectancy, attitude, and service quality can affect the mobile payment user's continuance intention. All variables were measured from the perspective of users. Below are the hypotheses tested in this study.

H<sub>1</sub>: Effort Expectancy has a positive and significant effect on Continuance Intention of mobile payment users.

**H**<sub>2</sub>: Attitude has a positive and significant effect on Continuance Intention of mobile payment users.

H<sub>3</sub>: Service Quality has a positive and significant effect on Continuance Intention of mobile payment users.

### 5. RESEARCH METHOD

The convenience sampling method was utilized in this research. The Google Form was used to deliver the questionnaire to respondents. This study had a sample size of 225 respondents, however only 217 of them could be processed properly.

1

About the respondents' demography, 29.5% was male, and the remaining 70.5% was female. Respondents between the age of 18-22 y/o was 139 persons (64,1%).

The variables' operationalization to measure Effort Expectancy used 3 indicators. To measure attitude used 4 indicators. To measure Service Quality used 5 indicators and to measure Continuance Intention used 3 indicators. All the indicators of variables adapted from Raman & Aashish [7] and using 5-point Likert scale.

#### 6. RESULTS AND DISCUSSIONS

The significant value of 0.0000 indicates that the sampling size was sufficient to undertake the factor analysis, according to the findings of the KMO and Bartlet tests.

Table 1 Validity and Reliability Test

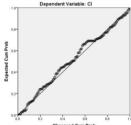
Table 1 Validity all		Validity	Reliability
Variable	Indicator	1	Cronbach's Alpha
Effort Expectancy	$EE_1$	0.650	_
	$EE_2$	0.593	
	$EE_3$	0.654	0.692
Attitude	$A_1$	0.729	]
	$A_2$	0.695	]
	$A_3$	0.691	
	$A_4$	0.715	1
Service Quality	$SQ_1$	0.689	0.775
	$SQ_2$	0.676	1
	$SQ_3$	0.692	1
	$SQ_4$	0.637	
	SQ <sub>5</sub>	0.683	]
Continuance Intention	CI <sub>1</sub>	0.717	0.813
	CI <sub>2</sub>	0.748	1
	CI <sub>3</sub>	0.772	1

\_ 1

The result of the classical assumption test can be seen in Table 2 and Table 3 as follow. Meanwhile, the results of Normality Test can be seen in P-Plot diagram and that of

Heteroscedasticity test can be seen in the Scatter Plot Diagram in Figure 2.

ormal P-P Plot of Regression Standardized Residual



Scatterplot

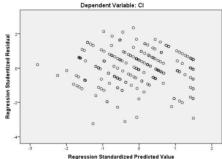


Figure 2 Test of Normality and Heteroscedasticity

The data appears to be normal in the above image, and there is no evidence of heteroscedasticity. Furthermore, because there is no association between each independent variable, the multicollinearity test determined that there is no multicollogarity. The tolerance value in the table below is > 0.10, and the VIF value is less than 10.

Tolerance

Collinearity Statistics

.635

.519

.520

1.575

1.929

1.923

Table 2 Test of Multicollinearity and Multiple Regression

	Unstandardized		Standardized		
	Coefficients		Coefficients		C.
Model	В	Std. Error	Beta	t	Sig.
(Constant)	401	.364		-1.100	.273
EE	017	.100	010	-0.170	.865
A	.792	.080	.626	9.882	.000
SQ	.246	.089	.175	2.776	.006

Based on the SPSS test results, the multiple regression equation could be formed as follow: CI = -0.401 - 0.017 EE + 0.792 A + 0.246 SQ.

weral tests were used to undertake data analysis, including multiple regression analysis, the F-Test, and the Coefficient of Determination test (R2). The F-statistics value is 89.442, with a significance value of 0.000. The third hypothesis, that

Effort Expectancy, Attitude, and Service Quality have positive and significant effects on Mobile Payment Users' Continuance Intention, might be accepted.

Table 3 F-Test

ANOVA <sup>a</sup>					
9	Sum of		Mean		
Model	Squares	df	Square	F	Sig.
1 Regression	93.685	3	31.228	89.442	.000
Residual	74.384	213	0.349		
Total	168.070	216			
a. Dependent Variable: CI					
b. Predictors: (Constant), EE, A, SQ					

The Coefficient of Determination (CD) test is used to determine how much the independent variables (X) contribute to the dependent variable (Y). The Adjusted R-Square value is 0.551, indicating that the independent variables in this study (Effort Expectancy, Attitude, and Service Quality) can explain 55.1% of the dependent variable (Continuance Intention), whereas additional variables not addressed in this study can explain 44.3 percent.

Table 4 Coefficient of Determination

		Adjusted R	Std. Error of		
Model	R Square	Square	the Estimate		
1	.557	.551	0.59095		
a. Predictors: (Constant), EE, A, SQ					

#### 7. CONCLUSIONS AND IMPLICATIONS

The majority of the 217 people that took part in the survey were women. Students made up the majority of those who responded.

The normality test, heteroscedasticity test, and multicollinearity test are examples of classical assumption tests that have been performed. The data used was normal, with no heteroscedasticity or multicollinearity effects, according to the test results.

The t-test of the effort expectancy variable  $(X_1)$  has a negative effect on continuance intention (Y) on users of mobile payment in Jakarta. This can be seen from the significance value of effort expectancy  $(X_1)$  of 0.865 > 0.05, which means that  $H_1$  is not accepted. These results are in line with research conducted by Hutabarat et al. [15] which states that effort expectancy does not have a positive effect on continuance intention. Users still experience difficulties or do not feel easy when using the Fund's mobile payment, therefore the continuance intention of its users is also decreasing.

The results of the t-test of the attitude variable  $(X_2)$  proved to have a positive effect on continuance intention (Y) on users of mobile payment in Jakarta. This can be seen from the significance value of attitude  $(X_2)$  of 0.000 < 0.05, which means that  $H_2$  is accepted. These results 4 e in line with research conducted by Khayer & Bao [28] which states that attitude has a significant influence on continuance intention. The better the user's attitude towards mobile payment, the

higher the continuance intention that will be experienced by the user to continue using mobile payment.

The t-test of the service quality variable (X3) revealed that it had a favorable effect on users of mobile payment in Jakarta's continuance intention (Y). The significant value of service quality (X3) of 0.006 0.05 10 ich suggests H3 is accepted, demonstrates this. These findings are consistent with Yang et al [26], who found that service quality has a significant impact on customer retention intentions.

The better the service quality of mobile payment, the higher the user's continued intention to continue using mobile payment.

The contribution of this research for the academic community is to enrich references to similar studies and provide input on the role of effort expectancy, attitude, and service quality on continuance intention of mobile payment users.

#### REFERENCES

- [1] https://www.kompas.com/skola/read/2020/10/26/152337669/sejarah- perkembangan-teknologi-informasi-dan-komunikasi?page=all
- [2] https://www.merdeka.com/jabar/8-manfaat-internet -bagi-kehidupan-manusia-perhatikan-penggunaannya-secara-bijak-kln.html?page=4
- [3] https://techno.okezone.com/read/2016/05/02/207/1378595/sejarah-mobile-payment-untuk-transaksi-barang-jasa
- [4] https://id.techinasia.com/dana-dan-masa-depan-pembayaran-digital
- [5] https://www.cnbcindonesia.com/tech/ 20200825151913-37-181854/transaksi- digital-sampaie-commerce-melesat-di-era-pandemi
- [6] https://www.dana.id/en/blog/dana-meraih-best-mobile-payment- application
- [7] Raman, P., & Aashish, K. (2021). To continue or not to continue: a structural analysis of antecedents of mobile payment systems in India. International Journal of Bank Marketing, 39(2), 242–271. https://doi.org/10.1108/IJBM-04- 2020-0167
- [8] Bhattacherjee, A. and Lin, C.P. (2015), "A unified model of IT continuance: three complementary perspectives and crossover effects", European Journal of Information Systems, Vol. 24 No. 4, pp. 364-373.
- [9] Zhou, T. (2013), "An empirical examination of continuance intention of mobile payment services",

- Decision Support Systems, Vol. 54 No. 2, pp. 1085-1091.
- [10] Osah, O. and Kyobe, M. (2017), "Predicting user continuance intention towards M- pesa in Kenya", African Journal of Economic and Management Studies, Vol. 8 No. 1, pp. 36-50.
- [11] Praveena, K., & Thomas, S. (2014). Continuance Intention to Use Facebook: A Study of Perceived Enjoyment and TAM. Bonfring International Journal of Industrial Engineering and Management Science, 4(1), 24-29. https://doi.org/10.9756/BIJIEMS.4794
- [12] Weng, G. S., Zailani, S., Iranmanesh, M., & Hyun, S. S. (2017). Mobile taxi booking application service's continuance usage intention by users. Transportation Research Part D: Transport and Environment, 57, 207–216. https://doi.org/10.1016/j.trd.2017.07.023
- [13] Kang, S. (2014). Factors influencing intention of mobile application use. International Journal of Mobile Communications, 12(4), 360–379. https://doi.org/10.1504/IJMC.2014.063653
- [14] Alalwan, A. A., Dwivendi, Y. K., & Rana, N. P. (2017). Factors influencing adoption of mobile banking by Jordanian bank customers: Extending UTAUT2 with trust. International Journal of Information Management, 37(3), 99-110. https://doi.org/10.1016/j.ijinfomgt.2017.01.002
- [15] Hutabarat, Z., Suryawan, I. N., Andrew, R., & Akwila, F. P. (2021). Effect Of Performance Expectancy And Social Influence On Continuance Intention In OVO. Jurnal Manajemen, 25(01), 125-140. http://dx.doi.org/10.24912/jm.v25i1.707
- [16] Kotler, P., & Armstrong, G. (2014). Principles of Marketing (Fifteenth Edition). In The great impulse challenge.
- [17] Gilani, M. S., Iranmanesh, M., & Nikbin, D. (2016). EMR continuance usage intention of healthcare professionals. January 2018. https://doi.org/10.3109/17538157.2016.1160245
- [18] Oscar, Y., & Keni, K. (2019). Pengaruh Brand Image, Persepi Harga, Dan Service Quality Terhadap Keputusan Pembelian Konsumen. Jurnal Muara Ilmu Ekonomi Dan Bisnis, 3(1), 20. https://doi.org/10.24912/jmieb.v3i1.3300
- [19] Cheng, Y. M. (2020). Why do customers intend to continue using internet-based sharing economy service platforms? Roles of network externality and service

- quality. Journal of Asia Business Studies, 15(1), 128–152. https://doi.org/10.1108/JABS-05-2019-0142
- [20] Mansour, I. H. F., Eljelly, A. M. A., & Abdullah, A. M. A. (2016). Consumers' attitude towards ebanking services in Islamic banks: the case of Sudan. Review of International Business and Strategy, 26(2), 244–260. https://doi.org/10.1108/RIBS-02-2014-0024
- [21] Lu, C., Berchoux, C., Marek, M. W., & Chen, B. (2015). Service quality and customer satisfaction: Qualitative research implications for luxury hotels. International Journal of Culture, Tourism, and Hospitality Research, 9(2), 168–182. https://doi.org/10.1108/IJCTHR-10-2014-0087
- [22] Lu, J. (2014). Are personal innovativeness and social influence critical to continue with mobile commerce? Internet Research, 24(2), 134–159. https://doi.org/10.1108/IntR-05-2012-0100
- [23] Chang, C. C. (2013). Exploring the determinants of e-learning systems continuance intention in academic libraries. Library Management, 34(1), 40–55. https://doi.org/10.1108/01435121311298261
- [24] Bellaaj, M., Zekri, I., & Albugami, M. (2015). The continued use of e-learning system: An empirical investigation using UTAUT model at the University of Tabuk. Journal of Theoretical and Applied Information Technology, 72(3), 464–474.
- [25] Alhassan, M. D., Kolog, E. A., & Boateng, R. (2020). Effect of gratification on user attitude and continuance use of mobile payment services: a developing country context. Journal of Systems and Information Technology, December. https://doi.org/10.1108/JSIT-01-2020-0010
- [26] Yang, M., Shao, Z., Liu, Q., & Liu, C. (2017). Understanding the quality factors that influence the continuance intention of students toward participation in MOOCs. Educational Technology Research and Development, 65(5), 1195–1214. https://doi.org/10.1007/s11423-017-9513-6
- [27] Deng, Z., Lu, Y., Wei, K.K. and Zhang, J. (2010), "Understanding customer satisfaction and loyalty: an empirical study of mobile instant messages in China", International Journal of Information Management, Vol. 30 No. 4, pp. 289-300.
- [28] Khayer, A., & Bao, Y. (2019). The continuance usage intention of Alipay: Integrating context-awareness and technology continuance theory (TCT). Bottom Line, 32(3), 211–229. https://doi.org/10.1108/BL-07-2019-0097

ORIGINA	LITY REPORT			
SIMILA	8% RITY INDEX	15% INTERNET SOURCES	13% PUBLICATIONS	5% STUDENT PAPERS
PRIMARY	'SOURCES			
1	www.at	lantis-press.com	1	7%
2	continue analysis systems	nt Raman, Kuma e or not to conti of antecedents s in India", Interr arketing, 2021	nue: a structuof of mobile pa	ural yment
3	Submitt Univers Student Pape		er Metropolit	an <b>1</b> %
4	WWW.SS Internet Sour	bfnet.com		1 %
5	Submitt Student Pape	ed to Southern	Cross Univers	sity 1 %
6	Submitt New Co Student Pape		oway and Be	dford 1 %
7		lo Nicoletti. "The r Science and Bu		0/ <sub>0</sub>

Springer Science and Business Media LLC,

Exclude quotes

Exclude bibliography On

On

8	ecojoin.org Internet Source	1 %
9	etd.uum.edu.my Internet Source	1 %
10	Abdullah Masmali, Fahhad Alghamdi. "Factors Influencing Teachers' Continuation of Online Learning in Elementary Schools", International Education Studies, 2021	1 %
11	Submitted to University of Greenwich  Student Paper	1 %
12	Submitted to ebsu Student Paper	1 %
13	www.ijsrp.org Internet Source	1 %

Exclude matches < 1%