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Generation X Consumption Behavior Model in Using Digital Transactions

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Abstract

Technology is a necessity that cannot be separated from today's life. Daily activities become easier, even ignoring distance, space, and time. This convenience provides cost savings, improves the use of time, and even changes business processes. This study aims to analyze the model of consumer behavior of generation X in the use of digital transactions. This research is quantitative research with 73 respondents who meet the qualifications. Data was collected using a questionnaire which was then tested for validity, reliability, and model fit using the WarpPLS 6.0 analysis tool. The results of data processing and testing are carried out; it can be concluded that first, cultural factors mediated by consumption behavior do not directly affect generation X in digital transactions. Second, psychological factors have a direct influence on generation X digital transactions. Consumption behavior as a mediating variable does not have an influence between psychological factors and digital transaction behavior for generation X. The limitation of this study is that the population only focuses on generation X.

Keywords: Generation X; Psychology; Culture; Consumer Behavior; Digital Transaction



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INTRODUCTION

Dependence on technology is one of the opportunities that are widely used by technology-based companies. Fulfillment of needs ranging from finding, getting, to paying using technology. This massive change affects many lifestyles and behavior of many people. Virtual payments are starting to appear. AL-Saji (2019) explained that the banking industry currently provides technology-based facilities as a form of innovation and innovation process to save costs and increase efficiency.

Banks and financial institutions have finally created several facilities that can use customers to transact virtually. There are types of mobile banking, internet banking, SMS banking, and other virtual types. This regulation regarding electronic transactions is regulated by the Financial Services Authority (2017). Changes in culture and social environment such as accelerate the transformation of these changes. The transformation of technology-based and virtual or online transactions continues until, finally, the types of e-money appear. The development of e-money is regulated by Bank Indonesia (2014). This ease of payment reduces the use of cash to become cashless.

This very turbulent use is not a surprising thing for generations with categories of gen Y and gen Z. People born around 1981 until now are a generation that is very close to technology. Putra (2016) explained that generations Y and Z are a generation that relies heavily on technology. Especially Generation Z's mastery of information and technology is fundamental because they were born with very broad data access.

Stevens (2019) explains that service and problem solving from customer banking will vary due to different generations of customers. The baby boomers generation is the pioneer generation in the transformation of the use of technology but still likes to complete transactions by meeting face-to-face. Generation X is a generation that likes convenience and makes transactions electronically, and most of them already use smartphones. Changes in habits in the use of technology are a condition experienced by generation X as a result of the first generation experiencing a transition period. This generation has experienced a lot of culture shock over this condition, so many are found who are still very lacking in updating the use of technology.

The differences in manners generations, such as manners, behavior, and use of technology basis for research, especially after the COVID-19 pandemic in Indonesia. Based on the things mentioned above, this study aims to examine the influence of cultural and psychological factors on digital transactions mediated by the consumption behavior of Generation X.

LITERATURE REVIEW

Kasasa (2021) explains the things that distinguish the characteristics between generations, such as media consumption, banking habits, shaping events, and financial horizon. Sipayo (2017) describes the intergenerational scheme into 4 categories based on generation theory, namely generation baby boomer (1945-1960), generation X (1961-1980), generation Y (19981-1995), and generation Z (after 1995). This generational difference greatly affects the way of behaving, especially in the work environment.

Khaniwale (2015) explained that consumer behavior is influenced by internal and external factors. External factors include cultural and social factors, while internal factors include personal and psychological factors. Each of these internal and external factors has its derivative factors. Other factors that influence changes in consumer behavior such as shopping experience, dynamics of price changes, personal interests, buying strategies, perceptions of price fairness, intention to satisfy themselves, etc. (Victor, Thoppan, Nathan, & Maria, 2018).

Nilekani et al. (2019) define digital transactions are payments made using a system without using cash and using digital modes or electronic media to send and receive money. (Deloite, 2014) describes the digital transaction ecosystem that has been adopted and forms an end-client ecosystem. The actors in this ecosystem are business people, government, and end consumers. Group (2018) describes several key trends affecting payments globally, namely increasing competition, the need for real-time payment, regulation and efficiency, and the importance of security.

Combi (2016) explains that changes in the use of technology do not necessarily occur because of the technology but because of many factors that encourage the use of technology, such as anthropology, culture, social change, and other sciences. Swain et al. (2020) and Hartl & Hess (2017) explain that culture is a flexible and detailed thing to transform digital transactions. Saragih & Nopriadi's (2019) results of research state that culture significantly influences the use of technology to conduct transactions and payments online.

H1: Cultural factors have a significant effect on the use of digital transactions mediated by consumption behavior

Lin, Wang, & Hung (2020) describe several psychological factors that influence a person to conduct digital-based transactions. Psychological factors such as personal risk, trust, and satisfaction. (Gia-Shie Liu & Pham Tan Tai, 2016) added another psychological factor that influences the use of digital-based

transactions. Mobility, convenience, suitability, knowledge, trust, risk, ease to use, multifunctional, and safe to use are things that will affect personal use.

H2: Psychological factors have a significant effect on the use of digital transactions mediated by consumption behavior



Figure 1. Hypothesis Framework

RESEARCH METHOD

This research uses quantitative research methods using a questionnaire as a data collection tool. Apuke (2017) mentions that quantitative research aims to test hypotheses and see the cause and effect of the predictions of the hypotheses built. Data analysis will be carried out using the Path Analysis method. This method is u4sed to identify direct and indirect, significant and insignificant relationships of each variable that is built.

Questionnaires were distributed to 100 respondents, and 73 respondents were selected who met the purposive sampling criteria. The selected respondents consisted of 26 men and 47 women with various characteristics of age, domicile, and occupation. Descriptive data on banking account ownership explains that most of the respondents have two banking accounts (28.77%) for activities to fulfill daily needs. Followed by three banking accounts, four banking accounts, one banking account, and five banking accounts; some even have more than five banking accounts.

Respondents use digital transactions in the form of digital facilities from banking and use e-money to make online purchases. The frequency of online purchases within 12 months was made more than 30 times by 42 respondents, while the other 31 respondents made online purchases 21-30 times. This online learning is carried out at least once a week by 32 respondents, more than 4 times a week by 19 respondents, 2 times a week by 14 respondents, more than 4 times a week by 4 respondents, and there are respondents who shop as needed 4 times.

Data analysis be carried out using endogenous, exogenous, and mediating variables. The endogenous variables are digital transactions, the exogenous variables are culture and psychology, and the mediating variable is the consumption behavior of generation X. The mediation variable is used to analyze the paths of each indicator used and obtain the results of direct and indirect effects of endogenous and exogenous variables. Carrión et al. (2017) explained that the influence exerted by mediating variables could mediate fully, partially, and even not mediate. The variable assessment indicator in this questionnaire uses a Likert scale of 1-7. Cultural variables are arranged with 6 statements, psychological

variables are arranged with 6 statements, consumption behavior variables are arranged with 5 statements, and digital transactions are arranged with 5 statements.

Initial testing is done by evaluating the measurement model to determine the reliability and validity of the construct. Test validity (test loading factor and AVE value) and reliability (calculate composite reliability and Cronbach's alpha). Then, the structure of the model was tested using analysis R-Square, Path Coefficients, T-statistics, Predicted Relevance, and Model Fit. The sample of this research is generation X, who was born around 1960 – 1980, with a total of 100 respondents. Sampling using purposive sampling method with respondent criteria as follows:

- 1. Using one of the banking facilities such as mobile banking, SMS banking, or internet banking for at least 2 years.
- 2. Using one of the electronic money such as Gopay, Ovo, Link Aja, Dana, Shoppepay, and other electronic money for transactions with accumulated transactions of at least 25 times in a minimum period of 12 months.
- 3. Perform online purchase transactions on one of the platforms at least 5 transactions within 6 months.

FINDINGS AND DISCUSSION

Distribution was given to 100 respondents, and 73 respondents were selected who met the criteria of purposive sampling. The selected respondents consisted of 26 men and 47 women with various characteristics of age, domicile, and occupation. Descriptive data on banking account ownership explains that most of the respondents have 2 banking accounts (28.77%) for activities to fulfill daily needs. Followed by 3 banking accounts, 4 banking accounts, 1 banking account, 5 banking accounts; some even have more than 5 banking accounts.

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The statistical data process presents the loading-factor calculation of the indicators used to measure the relationship between endogenous, mediating, and exogenous variables. In the following, the loading results of each question indicator in the questionnaire are presented.

	Table 1. Loading Factor Testing							
	PBT	РК	FB	FP	(Type as defined)	SE	P Value	
PBT1	(0.734)	-0.179	0.478	-0.017	Reflective	0.092	< 0.001	
PBT2	(0.875)	0.251	-0.202	0.046	Reflective	0.088	< 0.001	
PBT3	(0.806)	-0.246	0.083	-0.106	Reflective	0.090	< 0.001	
PBT4	(0.839)	0.157	-0.097	-0.066	Reflective	0.089	< 0.001	
PBT5	(0.854)	-0.025	-0.187	0.133	Reflective	0.089	< 0.001	
PK1	0.325	(0.931)	-0.009	-0.080	Reflective	0.087	< 0.001	
PK2	-0.283	(0.955)	-0.077	0.200	Reflective	0.086	< 0.001	

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	PBT	РК	FB	FP	(Type as defined)	SE	P Value
PK3	-0.186	(0.966)	-0.135	0.202	Reflective	0.086	< 0.001
PK4	-0.546	(-0.002)	-0.486	1.012	Reflective	0.116	0.492
PK5	-0.731	(-0.202)	-1.054	1.546	Reflective	0.109	0.034
FB1	-0.213	0.759	(0.720)	-0.176	Reflective	0.093	< 0.001
FB2	0.221	-0.285	(0.856)	-0.402	Reflective	0.089	< 0.001
FB3	0.027	-0.221	(0.839)	-0.661	Reflective	0.089	< 0.001
FB4	0.299	-0.287	(0.898)	0.282	Reflective	0.088	< 0.001
FB5	-0.416	0.335	(0.821)	0.761	Reflective	0.090	< 0.001
FB6	0.017	-0.157	(0.858)	0.172	Reflective	0.089	< 0.001
FP1	0.289	-0.225	-0.284	(0.884)	Reflective	0.088	< 0.001
FP2	-0.365	0.334	-0.320	(0.922)	Reflective	0.087	< 0.001
FP3	0.223	-0.194	0.258	(0.923)	Reflective	0.087	< 0.001
FP4	-0.002	-0.031	0.189	(0.943)	Reflective	0.086	< 0.001
FP5	-0.166	0.148	0.315	(0.936)	Reflective	0.086	< 0.001
FP6	0.035	-0.042	-0.174	(0.948)	Reflective	0.086	< 0.001

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Validity testing is done by testing the loading factor of each indicator used to measure the variables used. The loading factor owned must be greater than 0.70. The results of the validity test for the exogenous variable of consumption behavior (PK) show that the 2 indicators in the variable cannot be used as indicators of variable assessment (PK4 and PK5) because the test value is smaller than 0.70. The two indicators have P-Value values of 0.492 and 0.034, while the standard P-Value that must be owned by each indicator is P < 0.005 and an AVE value of at least 0.50. Furthermore, reliability testing is carried out by testing composite reliability and Cronbach's Alpha with a value that must be greater than 0.70. The data for testing the validity and reliability are presented in the following Table.

Tuble 2. Composite Kendbinty Coemclency of onbuen 5 mpna, and mv 1 value						
	Cronbach's Alpha	Composite Reliability	Average Variance Extracted (AVE)			
Culture (X ₁)	0.911	0.932	0.695			
Psychology (X ₂)	0.967	0.973	0.858			
Consumption Behavior (M)	0.950	0.968	0.909			
Digital Transactions (Y)	0.880	0.913	0.677			
a						

Table 2. Composite Reliability Coefficient, Cronbach's Alpha, and AVE Value

Source: Processed Data

Validity testing is done by testing the discriminant validity with a standard value greater than 0.70. The results of this test are shown in the output correlations among latent variables, which are presented in the following table.

Tab	Table 3. Output Correlations Among Latent Variables					
	PBT	РК	FB	FP		
Digital Transactions (PBT)	(0.823)	0.742	0.127	0.147		

0.742	(0.953)	-0.041	-0.034
0.127	-0.0410.834	(0.834)	0.920
0.147	-0.034	0.920	(0.926)
	0.742 0.127 0.147	0.742 (0.953) 0.127 -0.0410.834 0.147 -0.034	0.742(0.953)-0.0410.127-0.0410.834(0.834)0.147-0.0340.920

Source: Processed Data

The next testing process is path analysis testing based on the structure of the research model that was formed at the beginning. The results of testing the model structure are presented in the image below.



Figure 2. Structure Model Processing

The test results of the model structure presented in Figure 2 obtain a value model fit with an APC value of 0.256 or equal to 25.60% and P-value = 0.005, ARS of 0.218 or equivalent to 21.80%, and P-value = 0.012. The calculation of the VIF value is 1,236, and the GoF value is 0.411. Path coefficient value H1 equals -0007 P = 0:28, while the H2 has a coefficient lines P = 0:12 and 0:15. The overall path coefficient value is 0.73 with P<0.001 and R-Squared 0.57.

Based on the results of data processing that have been presented above, further discussion of the research results will be carried out. This discussion will begin by presenting a summary of the hypotheses presented below.

	Table 4. Direct and Indirect Effect						
	Direct E	ffect	Indirect	Effect			
	Path Coefficient	P-Value	Path Coefficient	P-Value			
FB-PBT	-0.065	P=0.284	0.002	P=0.489			
FP-PBT	0.116	P=0.152	0.268	P<0.001			
FB-PK	0.003	P=0.489					
FP-PK	0.367	P<0.001					
PK-PBT	0.729	P<0.001					

Source: Processed Data

Testing H1 in Table 3 shows that the p-value (0.284) greater than the level of significance was set. H1 is not supported. H1 explains that cultural factors do not affect generation X in digital transactions. Testing H2 direct influence shows that the p-value (0152) is greater than the significant set, while the indirect linkage FP-PK showed a p-value (<0.001) and PK-PBT shows the p-value (<0.001). This relationship shows full mediation, then H2 supported.

Moqbel, Guduru, & Harun (2020) explained that the test using the method of *path-analysis analysis* gave real results about the relationship between endogenous and exogenous variables. The first hypothesis is that cultural factors in generation X do not have a direct and significant relationship to digital transactions even when mediated by factors of consumption behavior. The second hypothesis is that the psychological factor of generation X does not have a direct and significant relationship to digital transactions; however, the mediating variable, namely the consumption behavior factor, influences so that an indirect and significant influence appears so that it fully mediates. The results of this test support the research objective to examine the factors that influence generation X in conducting digital transactions, especially in the current new normal transactions.

CONCLUSION

Data collection, testing, and data analysis carried out concluded that cultural factors were not the main factor for Generation X to carry out digital transactions even though they are mediated by consumer behavior. Psychological factors mediated by consumption behavior, in fact, influence Generation X to conduct digital transactions. Consumption behavior factors regarding shopping experiences, price changes, desire to buy, promotions, shopping habits, and other factors become things that mediate digital transactions.

LIMITATION & FURTHER RESEARCH

The limitations of this study are the sample and population used only in generation X. Future research can expand the sample and population in a wider generation hierarchy to obtain a model that affects digital transactions between generations. Further research can also add richer exogenous variables to obtain broader knowledge development.

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