ASSESSING THE PURCHASE INTENTION OF MALAYSIAN GENERATION Y IN MOBILE SHOPPING

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Abstract

Generation Y is known as Millennials and also acknowledged as sophisticated and technology wise for which the internet became their forte. With the advancements of Internet technology especially the usage of smartphone to shop online, mobile shopping in this generation is significant and critical for exploration. While a large number of mobile phone consumers are connected to the Internet, it is also variety of online promotion appears aggressively to attract the customers'. As such research on what drives consumers to purchase online has typically been fragmented. In Malaysia setting, it is reported that- mobile phone users were dominated by generation Y users. As the reports indicate, users fully embrace the concept of getting connected everywhere at any time. With pattern showing increasing consumer subscriptions for mobile data usage, it thus indicates the importance of the purchase intentions of online users among Gen Y. The aim of this paper is to model the effect of the Gen Y consumers' usefulness, ease of use and enjoyment of their online behaviours on mobile purchase intention. This research is to propose that when Gen Y consumers shop online through mobile applications, their behaviour such as perceived usefulness, perceived ease of use and perceived enjoyment are the important factor to influence the consumer's intention. To test this proposition, one hundred and sixty usable responses were collected using non-probability sampling. The conceptual model was tested using correlation and regression analysis. The findings show that the effect of a consumer's perception on the usefulness, ease of use and enjoyment of mobile shopping towards purchase intentions were significant. We conclude that Gen Y has a strong influence on mobile purchase intentions. Research implications, limitations and suggestions for future researches were also discussed.

Keywords: Gen Y, usefulness, ease of use, enjoyment and mobile purchase intention.

1. INTRODUCTION

Simply installing a mobile application on a smartphone allows users access to mobile commercial services, such as mobile shopping, mobile banking, mobile investing, and mobile auctions. A study by Arpaci, Yardimci, Özkan, & Türetken (2012) estimated that online shopping done from mobile phone applications worldwide are expected to grow to US\$119 billion in 2015, representing approximately 8% of the total e-

commerce market. Despite the initial high expectations of substantial growth, the market has taken much longer than expected to accept mobile commerce (Khalifa & Shen, 2008). Therefore, further investigations are needed as the creation of a successful and widely adopted mobile commerce environment continues to be difficult to achieve (Herndon, 2013).

However, with the explosive increase in terms of ownership of smartphones, has shown the potential for outburst in mobile shopping (Tsai & Ho, 2013). It has therefore become important to understand the key factors affecting the success of users' online purchase intention through the use of mobile shopping applications. As this mobile shopping application provides great convenience and unrestricted from temporal and spatial constraints to users that may promote their usage. With the increasing popularity of mobile shopping application, there will probably be a change in the trend of the generation Y consumers who are busy and always connected online. As such generation Y consumers have aroused the interest of global marketers due to their spending power and high likelihood to engage in impulse buying behaviours (Khan et al., 2016).

Generation Y is made up of an early group of users with the frequent exposure to the technology that has an effect in terms of cognitive and emotional outcomes (Immordino-Yang et al., 2012). Evidence from the report by CNN states that "Americans used smartphone and tablet apps more than PCs to access the Internet (in January 2014)" which is the first time that has ever happened. In the same year another report made by Cohen (2014) stated that 87% of generation Y always had their smartphones at their side, day and night, 78% spend over 2 hours a day using their smartphones, and 68% of generation Y considers their smartphone to be a personal device. Thus, the facts stated above convey the importance of mobile shopping to generation Y and highlights the need for further study to be conducted.

Based on past studies discussed above regarding mobile users' behavior, most of the researches have attempted to investigate the factors that can influence the purchase intention, where many of these studies are carried out mainly in countries such as the China, Taiwan and USA. Therefore, further research is needed to examine the different influences on the formation of beliefs regarding the usefulness, ease of use, and enjoyment, this given to the facts that belief recurrence in theoretical models of consumer behavioral intentions towards online purchases base on Malaysia setting. In Malaysia setting, a survey conducted by Malaysian Communications and Multimedia Commission (MCMC) in 2014 reported that mobile phone users were dominated by young adults (generation Y), from the age group of 20–24 with 18.8% users. The second largest group was aged 25–29 which accounted for 16.3% from the total population in which both groups can be classified as generation Y. Likewise; this report is consistent with another survey by MCMC on Internet Users in 2014, which stated that smartphones were the most widely-used devices to access the Internet at 74.3%. As the numbers indicate, users fully embrace the concept of getting connected everywhere at any time. With pattern showing increasing consumer subscriptions for mobile data usage, it thus indicates the importance of the purchase intentions of online users (Goldsmith, 2002; Bobbit and Dabholkar, 2001).

2. LITERATURE REVIEW

Evolvement in the mobile shopping environment had impact the users impressively. It is doubtlessly will contribute to the higher number of users in the future (Forge et al., 2006; Funk, 2004). Study by Wong et al. (2012, p. 25) regard mobile shopping as "any monetary transactions related to purchases of goods or services through internet-enabled mobile phones or over the wireless telecommunication network". Also most of the previous studies postulate that mobile shopping as an advanced of mobile service that allows customers to browse or purchase products and services from retailers via mobile devices anywhere, anytime (Hung et al., 2012; Yang and Kim, 2012).

2.1 Intentions toward mobile shopping

Behavioural intentions have been well-established as a strong predictor of actual usage of information technologies (e.g. Davis et al., 1989 and Venkatesh et al., 2003) and of online shopping (e.g. Ajzen, 2011, Lin, 2007; Pavlou and Fygenson, 2006). Perhaps the interactive medium download on mobile shopping application is important characteristics to increase vulnerabilities and generate perceptions that adversely affect the consumers' intention to purchase (Faqih, 2013). Therefore to confirm Fishbein's behavioral intentions model this study is to test its predictability in the context of mobile shopping intention.

Mobile shopping is seen to have an influence to the users' cognitive responses toward using the technology that will influence users' intention (Koufaris, 2002). It is assumed that intentions capture the motivational factors that influence behaviour and the stronger the intention to engage in behavior (Ajzen, 1991). Thus base on past research, this study is to focus on the most commonly referenced online behavioral intentions –

intention to purchase- as these relate more directly to successful mobile shopping and have been corroborated in several studies.

2.2 Factors affecting the Users Intention to Purchase

In evaluating the technology past studies are theorized by models such as the technology acceptance model (TAM; Davis et al., 1989), the theory of reasoned action (TRA; Fishbein and Ajzen, 1975), and the theory of planned behavior (TPB; Ajzen, 1985). The application of this model are differs base on the research perspectives.

Past studies included various frameworks and models to clarify the factors or determinants influencing the acceptance of technology in consumer context. TAM proposed that perceived usefulness and perceived ease-of-use and perceive enjoyment are able to predict the behavioral intention among the mobile technology users. There are several researches done in Malaysia relating to TAM (Hussein, 2015; Krishanan, Khin & Teng, 2015; Salman et al., 2014; Lim & Ting; 2012). The TAM model was used to guide this study to identify on the online mobile users' purchase intentions, and their antecedents.

2.3 Perceive Usefulness

Perceive usefulness act as a persuasive tool that will increase the influences on mobile users' intention towards usage. Davis (1989, p.320) postulates that "perceived usefulness is the extent to which a person believes that using a particular system will enhance his or her performance". In this study, perceived usefulness signifies the degree to which a user believes that making purchases via smartphone will improve his or her performances.

An individual judgment of perceived usefulness may serve as a key antecedent of a behavioral intention as supported in prior studies (Hussein, 2015; Krishanan et al, 2015; Ha et al, 2007). Apparently, perceived usefulness induces intention to use mobile shopping among young people at the age between 18-24 years in Australia (Sweeney & Fenech, 2004). Current research done by Ramesh (2013) reported that people at youth age preferred to do mobile purchase because of the usefulness, practicality, durability and performance of the brand. Therefore, this study postulates;

H1: There is significant relationship between perceived usefulness and intention to purchase in mobile shopping among Gen Y

2.4 Perceive Ease of Use

Perceived ease of use has been defined by Davis (1989, p. 320) as "the degree to which a person believes that using a particular system would be free of effort". Prior studies on consumer behavior found that a consumer's perceived ease of use and perceived usefulness of a system affect behavior intention of the consumer toward the system (Gao & Bai, 2014; Li, 2013). Ease of use tells that how simple it is to use the Internet as a shopping channel (Monsuwe et al., 2004). For generation Y, if they believe that they can easily handle the process of online shopping and it does not require additional efforts of developing skills that is needed to complete the process, they are more prone to do online shopping (Chiu et al., 2009). In short, the ease of use of online mobile purchase platforms may induce the Gen Y consumers' mobile online purchase intention in the future. Therefore, we hypothesize;

H2: A consumer of Gen Y perceived ease of use of mobile shopping positively affects their intention to use

2.5 Perceive Enjoyment

Enjoyment is to arise resulting from the fun and play arising from the mobile shopping experience. Mobile shoppers can be described as "problem solvers", and can be termed seeking for "fun, fantasy arousal, sensory stimulation, and enjoyment" (Hirschman and Holbrook, 1982). In the interactive environment of shopping experience, perceive enjoyment is expected to play the most prominent psychological impact (Lombard and Ditton, 1997). Likewise, several studies have established the positive influence of enjoyment as an essential factor in online shopping (Eighmey, 1997; Jarvenpaa and Todd, 1997).

Enjoyment has been defined as the extent to which using a system is perceived to be enjoyable in its own right, apart from any performance consequences that may be anticipated (Carroll, 1988, Cheema et al., 2013). Davis et al. (1992) classified enjoyment as an intrinsic motivation for adopting technology. This perception is an intrinsic motivation to use a certain information system (Rehman et al, 2013).

Enjoyment was also shown to induce perceptions of ease of use with subjects, thus enhancing technology adoption (Venkatesh, 2000). In this study, user's perceived enjoyment refers to the extent to which users expect to derive pleasure, fun and joy from using mobile shopping.

Consumers are unlikely to visit a website if it doesn't load properly on their mobile devices and do not experience a feeling of joy, elation, fun and pleasure and gratification from mobile shopping (Chinomona, 2013). In which there is a need for further study on this statement. Where there is remarkably little other research linking to enjoyment, perhaps because this effect is taken for granted (Lombard and Ditton, 1997). Therefore it is critical for this study to identify user's belief on purchase intention base on factors of enjoyment. Thus, the following hypothesis is proposed:

H3: Enjoyment will positively affect Gen Y consumer's intention to purchase in mobile shopping.

3. METHODOLOGY

This quantitative research using an experimental method employed 160 respondents of generation Y selected to participate on this research. As stressed by Bolton et al. (2013), using generation Y respondent in the research is an ideal group to focus on. This is based on technological settings which seem to be scarce, where its determinants may differ significantly.

As such university students and a self-administered survey were used for data collection through convenience sampling. University students were selected because their behaviors may change over their life cycle stages to infer generation Y's technological use. Therefore, it is vital for this research to study the mobile shopping experience among generation Y. By using university students as a sample, the fact that their behaviors are likely to vary in different contexts can be identified.

A questionnaire was used as an instrument to gather the data for this study. The questionnaire contains two main parts, the first relating to information about respondents' demographic characteristics. The second part was designed to measure respondents' knowledge and their mobile shopping experience. SPSS version 16 was used to analyze the data in this study.

4. RESULTS

Frequency analysis was first run to measure respondents' demographic characteristics. The results of analysis were presented in Table I. The ratio between male and female was not balance, which were 71.2% female and 28.8% male. The imbalance ratio was due to the fact that majority of the university students were female. Majority of the respondents fell into age group 26-30years old, which was 75.0%, followed by 21-25 years old (12.5%), 31-35 years old (8.7%), 36-40 years old (2.5%) and lastly 18-20 years old (1.3%). In terms of source of financing, majority of them were using money on loan basis (66.9%), own income and family basis (17.5%), followed by scholarship basis (13.1%) and lastly from a part time job (2.5%).

Demographic / Social Variables	Categories	Frequency	Percentage (%)
Gender	Male	46	28.8
	Female	114	71.2
Age (Years)	18-20	2	1.3
• • •	21-25	20	12.5
	26-30	120	75.0
	31-35	14	8.7
	36-40	4	2.5
Source of financing	Scholarship	21	13.1
	Loan	107	66.9
	Own/Family	28	17.5
	Part time job	4	2.5

Correlations							
		Influences	use	ease	enjoy		
Influe nces	Pearson Correlation	1	.551**	.671**	.405**		
	Sig. (2- tailed)		.000	.000	.000		
	Ν	160	160	160	160		
use	Pearson Correlation	.551**	1	.479**	.323**		
	Sig. (2- tailed)	.000		.000	.000		
	Ν	160	160	160	160		
ease	Pearson Correlation	.671**	.479**	1	.361**		
	Sig. (2- tailed)	.000	.000		.000		
	Ν	160	160	160	160		
enjoy	Pearson Correlation	.405**	.323**	.361**	1		
	Sig. (2- tailed)	.000	.000	.000			
	N	160	160	160	160		

Table 2: Coefficient Correlations

**. Correlation is significant at the 0.01 level (2 tailed).

The result of Pearson Correlations from the table 2 above shows that perceived ease of use (PEOU) is having a good relationship with influence of online shopping with the highest correlation r=.671. While perceived usefulness (PU) influenced online shopping with a correlation of r=.551. Perceived enjoyment is having a moderate relationship with the intention to do mobile shopping with the lowest correlation of r=.405.

				Standardized Coefficients		
Mo	odel	β	Std. Error	Beta	t	Sig.
1	Constant	.179	.261		.687	.493
	PU	.285	.067	.271	.287	.000
	PEOU	.534	.070	.490	.642	.000
	PE	.125	.053	.141	.371	.019

Table 3: Regression analysis

Dependent Variable: Intention

Based on the result above, perceived usefulness (PU) with p-value = .000 and perceived ease of use (PEOU) with p-value = .000 are significant with behavioral intention. Perceived enjoyment (PE) also found to be significant with behavioral intention with p-value=.019. The result also found that PEOU was the most important factor that contributes to behavioral intention with the highest value of β = .534 and followed by PU factor with β = .285 and PE factor with β = .125. The results indicate that they have a positive relationship with each other.

5. DISCUSSION AND CONCLUSION

From the above findings, it shows that those 3 factors; perceived usefulness, perceived ease of use and perceived enjoyment were significant with the purchase intention on mobile shopping. Perceived ease of use

was the most important factor that influenced the purchase intention with regards to mobile shopping. This is due to the fact that Gen Y prefers to use a technology which is user friendly, practical and not complicated when carrying out mobile shopping. This result was supported by a previous study done by Bigné et al. (2007), who posited that younger users tend to use the Internet shopping sites more than older users, when they found it easy and practical to use. In addition, Ramesh (2013) reported that young people preferred to do mobile purchase because of the usefulness, practicality, durability and performance of the brand. Perceived usefulness was found to be significant in this study, because in any study of the online purchase intention technology, this variable is the key antecedent that influences the behavioral intention (Hussein, 2015; Krishanan et al, 2015; Ha et al, 2007). Since this study focuses on Gen Y, we can see that the users are more prone to do mobile purchases because they find the system is useful, practical, durable (Ramesh,

Based on the results of perceived enjoyment, it was concluded that generation Y mobile shoppers are more likely to be out shoppers and are likely to derive more enjoyment from shopping. This result was consistent with prior studies where it was discovered that users found mobile shopping enjoyable, fun and pleasurable (Hirschman and Holbrook, 1982, Chinomona, 2013) and perceived enjoyment has a positive effect on mobile purchase intention (Karasavvogloua et al., 2013).

2013) and effortless (Chiu et al., 2009) for performing the task.

In conclusion, this research can be useful for future researches in mobile shopping. It updates the knowledge of the behavioral intention to purchase in mobile shopping. Besides that, the findings of this study would provide an insight to retailers and mobile application developers who intend to venture or expand into the Malaysian market to get a better understanding of behavior and expectations of Malaysian Generation Y in mobile shopping. Apart from that, to target the Generation Y effectively, marketers must have a unique way of segmenting the market by being aware of constantly changing the behaviour and trends in this generation.

6. LIMITATIONS

This study has several limitations which offer avenues for further research. First, the number of samples is relatively small to represent the population of Malaysian generation Y due to financial and time constraints in recruiting the respondents. Secondly, the conceptual framework needs a larger set of variables to intensively study the effects, and this can be materialized by future studies of consumer behavior with regards to mobile shopping.

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IJASOS- International E-Journal of Advances in Social Sciences, Vol.II, Issue 5, August 2016

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