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A customer value satisfaction, and loyalty perspective of mobile payment app. Tien Thao Cong Phan¹, Tri Quan Dang¹, Nguyen Thanh Luan¹

Abstract.

Although the mobile payment application is very popular and spread all over the world, however, in the increasingly competitive market economy, its market dominance has been affected. To achieve a sustainable competitive advantage, a model has been studied on the views of customer value, satisfaction and loyalty towards mobile payment applications. Based on data analysis of 303 app users, we found that usage intent is a key to driving customer satisfaction and loyalty for mobile payment apps. The findings show that perceived usefulness, perceived ease of use, social influence, quality of service and attitude towards using, thereby driving user intention to use for mobile payment applications. The study provides theoretical insights and practical implications for the field of mobile payment services.

Keywords. Perceived Usefulness, Perceived Ease of Use, Social influence, Quality of service, and Attitude Toward Using.

1. Introduction

The IT industry has grown over time in tandem with the advancement of smart mobile devices. As a result, trade financers must find solutions to become more and more outstanding and strive to reach out to be able to compete with previous generations by Chung and Liang. (2020). The next generation of payment technologies that are all based on information technology, such as quick response codes (QRs) or mobile payment app (Chang et al., 2022; Fu et al., 2022). Results from the report of Allied Market Research (2020), the global mobile payments market is expected to grow from 1.48 trillion USD in 2019 to 12.6 trillion USD in 2027, at an annual growth rate is 30.1%. Mobile apps are experiencing significant growth in Southeast Asia as evidenced by annual growth rates and daily usage hours. Over 6,000 apps are downloaded in Vietnam, spending over USD 900 every minute, contributing to 22% year-over-year growth by Data.ai. (2023).

In an increasingly competitive market, building customer loyalty is critical to gaining market share and achieving a sustainable competitive advantage. Therefore, it is imperative for mobile payment service providers to identify factors affecting user retention and take steps to retain existing customers and enhance loyalty (Zhong & Chen, 2023). Mobile payment trends are changing shopping habits in many Asian countries and are growing in popularity in Vietnam, according to a report by Asia Plus' research system Q&Me. In terms of popularity in Vietnam, MoMo is the top with 97%, ZaloPay is second with 68%, ViettelPay and Moca are third (62%) and fourth (46%) respectively by Asian Plus. (2020). Mobile payment apps have proven to be the preferred payment option for Southeast Asian consumers, with user numbers expected to grow by 58% from 2020 to 2025 (Kaur et al., 2020).

The advent of mobile payment apps has revolutionized the way money is transacted, offering unprecedented convenience and proficiency these days. However, so far, many studies have mainly focused on the history of acceptance behaviour of mobile payment users, and specific studies on user loyalty in this context are still rare (Yuan et al., 2020). This paper uses a virtual system of the Technology Acceptance Model (TAM) to examine customer appreciation, fulfilment, and loyalty to a distinctive mobile payment app: mobile payment apps. Therefore, we felt the need to shift the focus of current mobile payments research from initial rollout to consumer behaviour and focus on customer value, satisfaction, and loyalty for mobile payment applications.

Customer retention is still understudied and needs further attention in this particular market (Yuan et al., 2020).

Our inquiry about addresses holes in understanding versatile payment devotion by considering components such as esteem, quality, framework quality, data quality, and benefit quality as indicators of seen esteem. We utilize TAM models and auxiliary examinations to comprehensively evaluate client appraisals, satisfaction, and believe in versatile payment applications. This consideration uncovers qualities and ranges for change within the app's effect on customers' lives. It contributes to showcasing

and client behavior inquire about by analyzing client devotion from a mental esteem viewpoint, giving understanding into buyer behavior in portable installments past detail and quality concepts. Moreover, our investigate progresses the understanding of the relationship between multidimensional values, satisfaction, and devotion, and investigates how elective fascination may direct the affiliation between satisfaction and dependability.

2. Literature review

In this area, we begin with displaying a diagram of ATM and clarify the most structure (e.g. esteem and fulfilment). We at that point present the use of TAM within the IS field and summarize the three fundamental issues underlying previous investigations utilizing TAM. Another, we talk about the structures of our investigative show, expanding and building upon the first TAM.

2.1 Existing mobile payment app studies

Numerous researchers have been working within the field of information systems (IS) (Wenbo Yang, 2019; Dawu Gu, 2019; Silas Formunyuy Verkijika, 2021; Avinash Kumar, 2023; Ganesh Dash, 2023). Various fields of research on information systems (IS) have been applied such as business management (Maghsoudi, 2023), information technology (Pawar, 2022), organizational behavior (Lakshmi, 2023), economics (Takeda, 2022), sociology (Wang, 2023). To emphasize the mechanism of information systems as well as explain different psychological perspectives, recent IS studies such as performance amid COVID-19 (Saad, 2023) have shown this to be an interesting topic for many scholars and clarified in various articles. Some latest literature reviews on IS are summarised in Table 1.

Table 1. Previous studies

Authors	Category	Factors	Descriptions
(Maghsoudi, 2023)	Business Management	Business intelligence, system dynamics, implementation of business intelligence, information systems	This research aims to offer profitable bits of knowledge into the variables impacting organizational acknowledgment
(Pawar, 2022)	Information technology	Small and medium enterprise (SME), cybersecurity, cybersecurity controls, information systems	This article will give an outline of the significance of cybersecurity for SMEs and the dangers they confront within the advanced time
(Lakshmi, 2023)	Organizational behaviours	Information systems, e- learning, AI-based online education system,	The rise of advanced learning instruments has the potential to convert instruction, making it more adaptable, intuitively, and individualized
(Takeda, 2022)	Economics	COVID-19, micro, small and medium enterprises (MSMEs), employment, sales, information systems, Cash shortage, digitalization	This study aims to fill this crevice by analysing study information from MSMEs in eight creating nations over South, Southeast, and Northeast Asia
(Wang, 2023)	Sociology	Digitalization, public health, income inequality, information	This study aims to examine the relationship between digitalization and public health,

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		systems, developing countries	considering the mediating effect of
		countries	income inequality.
(Chakraborty, 2022)	Mobile payment applications	Information systems, customer involvement (COI), identified functional (FUV)	The study contributes to the existing literature by expanding the application of the theory of consumption values
			in the context of MPAs and exploring the role of
			trust and customer
			involvement

In the use of mobile payment applications, very little research has been done on the factors affecting people's information systems (Liu, 2023). Regardless, one such study on IS was done in India in the field of mobile payment applications (Chakraborty, 2022). This research looked at how natural components affected consumers. This study examines how natural ingredients influence consumer value, satisfaction, and loyalty in mobile payment applications. For mobile payment application usage. Another article studying the influence of IS did a systematic study of the world's largest smartphone and mobile payments market – China (Wenbo Yang, 2019). As a result, it is basic to utilize IS hypothesis to investigate a customer value, satisfaction, and loyalty perspective of mobile payment app in HCMC, Vietnam.

2.2 Hypotheses development

2.2.1 Perceived Usefulness (PU)

A certain technology can help the user to identify and complete a certain task well that is one of the manifestations of usefulness (Verkijika & Neneh, 2021a). Effective experiences when users use mobile payment applications often have a positive effect on their technology usefulness (Singh et al., 2020; Yan et al., 2021a). It saves time and effort; improve the ability to effectively manage financial transactions; process payments actively and efficiently and provide fast and convenient customer support services. In today's market, e-wallets are increasingly developing with fierce competition between companies, the higher the utility, the more customers will be attracted (Karim et al., n.d.-a). Because customers are the ones who have the right to choose the products and services they want. Because the person who has the right to choose products and services is the customer. In summary, the present study hypothesizes that:

H1. Perceived Usefulness (PU) positively influences the Attitude Toward Using (AT) mobile payment app.

2.2.2 Perceived Ease of Use (PEU)

Ease of use refers to the focus on the user's view of a certain technology with the utmost expression and effort; the use can see the simplicity, user-friendliness of the mobile payment application and it also plays a very important role in the adoption of new technologies such as the mobile payment application (Yan et al., 2021b). Users say they love some mobile payment applications because of the ease of use such as easy account registration, easy to use functions and easy to learn; users can also see that every transaction becomes simple and easy to understand (Verkijika & Neneh, 2021b). By assessing users' recognition of the ease of use of the app, we gauge their initial experience and potential boundaries for selection. In summary, the present study hypothesizes that:

H2. Perceived Ease of Use (PEU) positively influences the Attitude Toward Using (AT) mobile payment app.

2.2.3 Social influence (SI)

Individuals perceive work based on a view of social influence to achieve feelings of belonging, satisfaction, and loyalty (Dzandu et al., 2022). Social influence is the degree to which a person perceives that people important to them think they should use new information (Xu et al., 2015). Individuals tend to be influenced by people around them such as friends, family; influencers also prefer to use mobile payment apps over cash. Each construct has the explicit or implicit implication that people's behavior will be influenced by their own views of how others will perceive them when they use a particular technology

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(Argo & Dahl, 2020). Recommendations from trusted people and the support of mobile payment apps by influencers can serve as a solid spark for customers to embrace your apps and payment agreements. In summary, the present study hypothesizes that:

H3. Social influence (SI) positively influences the Attitude Toward Using (AT) mobile payment app.

2.2.4 Quality of service (QS)

Service quality can help consumers visualize which is the most important factor in creating customer loyalty and continued use of mobile payment services (Darko et al., 2023). This structure assesses how easy it is to pay utility bills, ability to identify problems with proficiency, ease of middleman payments, and the ability to integrate the Mobile Payments app with services; banking and various applications. With the development of information technology by Lv et al. (2022), social networks by Cao et al. (2021) and artificial intelligence (AI) by Olan et al. (2021), the experience of quality consumer service quality can be easily understood and transformed by service providers (Darko et al., 2023). The user's experiences with the app's ability to pay in installments and the intuitive rationalization of their money are the fundamental components that determine their overall satisfaction. In summary, the present study hypothesizes that:

H4. Quality of service (QS) positively influences the Attitude Toward Using (AT) mobile payment app.

2.2.5 Attitude Toward Using (AT)

Attitude can be defined as the belief that an individual has regarding the outcome that will be given when adopting certain behaviours and his assessment of the possible outcome, it focuses on the user recognition of the security, stable quality and comfort of the mobile payment application (Dash et al., 2023). In destinations around the world where mobile payment methods are adopted, customers' actual use of mobile payment methods increases as they respond positively to them (L.-T. Nguyen, Dwivedi, et al., 2022; L.-T. Nguyen, Nguyen, et al., 2023). It takes into consideration the app's security measures, advancements, and motivations that improve the client encounter, as well as the ease of making instalments at different retail foundations. Understanding users' demeanours toward mobile payment apps is significant in surveying their general fulfilment and the probability of proceeded utilization. In summary, the present study hypothesizes that:

H5. Attitude Toward Using (AT) positively influences the Intention to Use (IU) mobile payment app.

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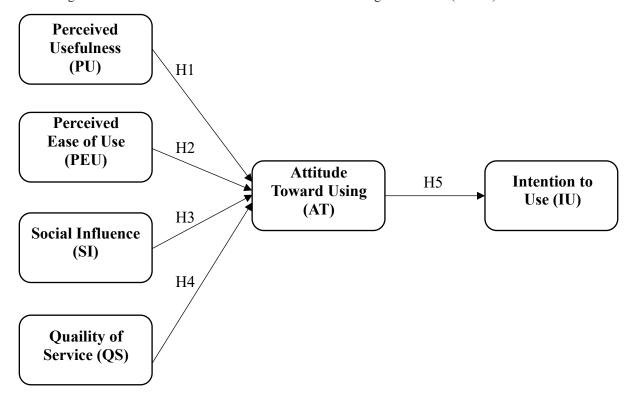


Figure 1. Proposed model

3 Research methodology

3.1 Data collection

This logical article looks at client esteem, satisfaction, and devotion towards portable payment applications. It analyses theories based on existing speculations and utilizes a quantitative strategy to recognize investigate questions (D. T. V. Dang et al., 2022; Phan et al., 2023). The consider studied about 9 million individuals in Ho Chi Minh City, Vietnam, in July 2023, employing a non-probabilistic testing strategy due to viable confinements. Ho Chi Minh City was chosen as the study location since of its huge populace with noteworthy get to to innovation and portable payment applications (Tien, Tri, et al., 2023). The study included statistic questions deciphered into Vietnamese for superior understanding and precision (T. Q. Dang et al., 2023; H.-B. Nguyen & Nguyen, 2021). Moreover, the survey things were changed and upgraded based on a comprehensive writing audit.

3.2 Measures

In this study, we have developed measurements, hypotheses that have been derived from previous surveys. In the study, we used survey questionnaires through Google Form software to test 5 constructs with a 24-item scale (L.-T. Nguyen, Nguyen, et al., 2022). We have collected the questionnaires from previous studies and updated and expanded the survey content from this study. This questionnaire was started in English and then we converted the questionnaire from English to Vietnamese - the official and most widely used language in Vietnam; We finally translated the survey from Vietnamese to English to ensure the most complete and accurate research. In depth, it covers about Perceived Usefulness (PU), Perceived Ease of Use (PEU), Social influence (SI), Quality of service (QS), and Attitude Toward Using (AT). We rate all questions using a 7-point Likert scale, from 1 "strongly disagree" to 7 "strongly agree. According to G*Power statistical software version 3.1, the effect size is $f^2 = 0.15$, probability of error $\alpha = 0.05$, power level $1 - \beta = 0.8$ and the number of predictors = 5, it resulted in a minimum sample size of 92. Based on the current ideas and the results of previous research papers, the purpose of this study

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is the view of customer value, satisfaction and loyalty towards mobile payment application. Therefore, the quantification of this study is consistent with the objective of this paper.

Table 2. Constructs and items to measure constructs

	Perceived Usefulnes	ss (PU)
No	Items	Sources
DI 11	I use Mobile payment apps to make	(Silas Formunyuy Verkijika, Brownhilder
PU1	payments, which saves me time and effort.	Ngek Neneh, 2021), (Sedigheh
DLIO	Mobile payment apps improve my capacity to	Moghavvemi, Tan Xin Mei, Seuk Wai
PU2	effectively manage my financial transactions.	Phoong, Seuk Yen Phoong, 2021),
DITA	I think using Mobile payment apps makes	
PU3	handling payments more productive for me.	
DIII	Mobile payment apps's transaction system	
PU4	has no fees and quick customer support.	
	Perceived Ease of Us	e (PEU)
No	Items	Sources
	Signing up for a Mobile payment apps	(Debarun Chakraborty, Aaliyah Siddiqui,
PEU1	account is very easy.	Mujahid Siddiqui, Nripendra P. Rana.
	I find using Mobile payment apps to be	Ganesh Dash, 2022)
PEU2	simple to learn.	, ,
	Mobile payment apps's features and functions	
PEU3	are easy to use and navigate through.	
	Using the Mobile payment apps, I found	
PEU4	transactions to be simple.	
	Social Influence	(SI)
No	Items	Sources
	People around me (friends, family,) all use	(Norman Shaw, Brenda Eschenbrenner,
SI1	Mobile payment apps and e-wallets to pay.	Benedikt M. Brand, 2022)
	Mobile payment apps's promotions in the	
SI2	media attracted me.	
	People recommend me to buy online with	
SI3	Mobile payment apps e-wallet instead of	
	Cash on Delivery.	
CT4	Influencers are using Mobile payment apps e-	
SI4	wallet for payment.	
	Quaility of Service	e (QS)
No	Items	Sources
	I can easily pay bills for electricity, water,	(Niklas Eriksson, Ates Gökhan, Minna
QS1	landline phone, cable TV, internet, with	Stenius, 2021)
	Mobile payment apps e-wallet.	(Chien-Chiang Lee, , Pei-Fen Chen, Pin-
	Mobile payment apps always receive	Jie Chu , 2023)
QS2	information and handle problems as quickly	
	and efficiently as possible.	
	Mobile payment apps are linked with many	
QS3	utility services, banks, and applications, so it	
yss	is very convenient to make intermediary	
	payments for users.	
	I can easily book air tickets, bus tickets, train	
QS4	tickets, and VETC with the Mobile payment	
	apps e-wallet without going to the place.	
	Attitude Toward Usi	ng (AT)
No	Items	Sources

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AT1	I find using the Mobile payment apps very safe and reliable.	(Mian Wu, Yulong (David) Liu, Sajjad M. Jasimuddin, Zuopeng (Justin) Zhang,
AT2	Mobile payment apps offer many good	2023)
	promotions and incentives for users.	
	Mobile payment apps help me pay at	
AT3	convenience stores, supermarkets, coffee	
AIJ	shops, milk tea, and restaurants, quickly	
	and easily.	
	I can buy goods online or transfer money to	
AT4	friends and relatives conveniently by Mobile	
	payment apps.	
1	payment apps.	
	Intention to Use	(IU)
No		(IU) Sources
No	Intention to Use	
No IU1	Intention to Use Items	Sources
	Intention to Use Items I can pay for anything with the Mobile	Sources (Puneet Kaur, Amandeep Dhir, Naveen
	Intention to Use Items I can pay for anything with the Mobile payment app e-wallet anytime and anywhere,	Sources (Puneet Kaur, Amandeep Dhir, Naveen Singh, Ganesh Sahu, Mohammad
IU1	Intention to Use Items I can pay for anything with the Mobile payment app e-wallet anytime and anywhere, regardless of time and space limitations.	Sources (Puneet Kaur, Amandeep Dhir, Naveen Singh, Ganesh Sahu, Mohammad
IU1	Intention to Use Items I can pay for anything with the Mobile payment app e-wallet anytime and anywhere, regardless of time and space limitations. I will be using the Mobile payment app often.	Sources (Puneet Kaur, Amandeep Dhir, Naveen Singh, Ganesh Sahu, Mohammad
IU1	Intention to Use Items I can pay for anything with the Mobile payment app e-wallet anytime and anywhere, regardless of time and space limitations. I will be using the Mobile payment app often. I will recommend the Mobile payment	Sources (Puneet Kaur, Amandeep Dhir, Naveen Singh, Ganesh Sahu, Mohammad

4. Results and discussion

4.1 Demographics

Table 3. Respondent Demographic Charac		Frequency (Total: 303)	Percentage
Gender	Male	137	45.21%
	Female	166	54.79%
Age	Below 20 years old	19	6.27%
	21–25 years old	198	65.35%
	26–30 years old	77	25.41%
	Above 30 years old	9	2.97%
Occupation	Student/College	255	84.16%
	Working	48	15.84%
Monthly Income	Less than or equal to \$200	181	59.74%
	\$200 to \$500	72	23.76%
	\$500 to \$1000	27	8.91%
	\$1000 and above	23	7.59%
Experience using	Less than 6 months	36	11.88%
mobile payment app	From 6 months to 1 year	54	17.82%
	From 1 year to 2 years	77	25.4%
	Over 2 years	136	44.9%

Note n=303

Table 3 shows that women account for a larger share than men (women: 54.79%, men: 54.21%). This sample is mainly people from 21-25 years old, accounting for 65.35%. Students/College are the majority, accounting for about 84.16%. In terms of monthly income, mainly people with incomes less than

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\$200, then people with incomes between \$200-\$500. The majority of experience using mobile payment applications is more than 2 years.

4.2 Measurement model assesment

These days, researchers are all seeking to use standardized reports, and it helps to demonstrate more structured models (B.-T. H. Nguyen, Le, et al., 2023). First, the reliability of the structure must be determined by the Composite reliability (CR) and Dijkstra-rho Henseler's (rho_a) confidence (L.-T. Nguyen, Duc, et al., 2023).

Table 4. Loading, cronbach's alpha, Dijkstra Henseler, composite reliability, and average variance extracted

Constructs	Items	Loading	Cronbach's	Composite	CR	Average
Constructs	Items	Loading	alpha	reliability (rho_a)	CK	variance extracted (AVE)
AT	AT1	0.828	0.848	0.850	0.898	0.688
	AT2	0.844				
	AT3	0.862				
	AT4	0.782				
IU	IU1	0.866	0.838	0.850	0.892	0.675
	IU2	0.833				
	IU3	0.845				
	IU4	0.735				
PEU	PEU1	0.849	0.832	0.833	0.887	0.664
	PEU2	0.845				
	PEU3	0.820				
	PEU4	0.740				
PU	PU1	0.775	0.852	0.858	0.900	0.693
	PU2	0.855				
	PU3	0.856				
	PU4	0.840				
QS	QS1	0.924	0.927	0.927	0.948	0.821
	QS2	0.924				
	QS3	0.891				
	QS4	0.885				
SI	SI1	0.920	0.938	0.938	0.956	0.844
	SI2	0.915				
	SI3	0.924				
	SI4	0.915				

Table 5. Hetero-Trait-Mono-Trait Assessment (0.90)

	\mathbf{AT}	IU	PEÙ	\mathbf{PU}	QS	\mathbf{SI}
AT						
IU	0.829					
PEU	0.805	0.740				
PU	0.503	0.557	0.686			
QS	0.795	0.861	0.661	0.545		
SI	0.813	0.840	0.652	0.478	0.816	

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According to the previously reported tables, the rho_a values and the composite reliability CR must be above 0.7, as it shows that the structure meets the high confidence (B. H. T. Nguyen, Le, et al., 2023). Table 4 shows that CR values are all above 0.7 (L.-T. Nguyen, 2023). The study used extracted mean average variance extracted (AVE) and item factor loading (FL) to test convergence validity (Fornell & Larcker, 1981). As a rule of thumb, the factor loading should be greater than 0.7, and the AVE should be greater than 0.5, and Table 4 should satisfy that need. Therefore, the convergent values of all variables are appropriate (C. N. B. Dang et al., 2023; Tien, Luan, et al., 2023).

AT IU PEU PU QS SI AT1 0.828 0.583 0.659 0.440 0.560 0.586 AT2 0.844 0.582 0.513 0.338 0.619 0.626 AT3 0.862 0.590 0.611 0.345 0.642 0.637 AT4 0.782 0.576 0.504 0.309 0.518 0.556 IU1 0.653 0.866 0.524 0.414 0.693 0.698 IU2 0.549 0.833 0.446 0.355 0.636 0.625 IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.333 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SII 0.660 0.673 0.568 0.424 0.706 0.920	Table 6. Cross loadings							
AT2 0.844 0.582 0.513 0.338 0.619 0.626 AT3 0.862 0.590 0.611 0.345 0.642 0.637 AT4 0.782 0.576 0.504 0.309 0.518 0.556 IU1 0.653 0.866 0.524 0.414 0.693 0.698 IU2 0.549 0.833 0.446 0.355 0.636 0.625 IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.335 0.366		AT	IU	PEU	PU	QS	SI	
AT3 0.862 0.590 0.611 0.345 0.642 0.637 AT4 0.782 0.576 0.504 0.309 0.518 0.556 IU1 0.653 0.866 0.524 0.414 0.693 0.698 IU2 0.549 0.833 0.446 0.355 0.636 0.625 IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.366	AT1	0.828	0.583	0.659	0.440	0.560	0.586	
AT4 0.782 0.576 0.504 0.309 0.518 0.556 IU1 0.653 0.866 0.524 0.414 0.693 0.698 IU2 0.549 0.833 0.446 0.355 0.636 0.625 IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363	AT2	0.844	0.582	0.513	0.338	0.619	0.626	
IU1 0.653 0.866 0.524 0.414 0.693 0.698 IU2 0.549 0.833 0.446 0.355 0.636 0.625 IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453	AT3	0.862	0.590	0.611	0.345	0.642	0.637	
IU2 0.549 0.833 0.446 0.355 0.636 0.625 IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686	AT4	0.782	0.576	0.504	0.309	0.518	0.556	
IU3 0.599 0.845 0.451 0.377 0.607 0.641 IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688	IU1	0.653	0.866	0.524	0.414	0.693	0.698	
IU4 0.491 0.735 0.645 0.414 0.557 0.482 PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668	IU2	0.549	0.833	0.446	0.355	0.636	0.625	
PEU1 0.530 0.517 0.849 0.484 0.451 0.464 PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716	IU3	0.599	0.845	0.451	0.377	0.607	0.641	
PEU2 0.494 0.430 0.845 0.455 0.406 0.393 PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673	IU4	0.491	0.735	0.645	0.414	0.557	0.482	
PEU3 0.531 0.451 0.820 0.461 0.479 0.479 PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PEU1	0.530	0.517	0.849	0.484	0.451	0.464	
PEU4 0.655 0.588 0.740 0.494 0.554 0.542 PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PEU2	0.494	0.430	0.845	0.455	0.406	0.393	
PU1 0.351 0.358 0.423 0.775 0.413 0.361 PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PEU3	0.531	0.451	0.820	0.461	0.479	0.479	
PU2 0.335 0.386 0.505 0.855 0.410 0.317 PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PEU4	0.655	0.588	0.740	0.494	0.554	0.542	
PU3 0.323 0.363 0.474 0.856 0.367 0.333 PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PU1	0.351	0.358	0.423	0.775	0.413	0.361	
PU4 0.416 0.453 0.540 0.840 0.422 0.413 QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PU2	0.335	0.386	0.505	0.855	0.410	0.317	
QS1 0.631 0.686 0.550 0.477 0.924 0.697 QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PU3	0.323	0.363	0.474	0.856	0.367	0.333	
QS2 0.650 0.688 0.507 0.391 0.924 0.737 QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	PU4	0.416	0.453	0.540	0.840	0.422	0.413	
QS3 0.644 0.668 0.558 0.425 0.891 0.649 QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	QS1	0.631	0.686	0.550	0.477	0.924	0.697	
QS4 0.635 0.716 0.527 0.473 0.885 0.673 SI1 0.660 0.673 0.568 0.424 0.706 0.920	QS2	0.650	0.688	0.507	0.391	0.924	0.737	
SI1 0.660 0.673 0.568 0.424 0.706 0.920	QS3	0.644	0.668	0.558	0.425	0.891	0.649	
	QS4	0.635	0.716	0.527	0.473	0.885	0.673	
gra 0.656 0.672 0.530 0.365 0.705 0.915	SI1	0.660	0.673	0.568	0.424	0.706	0.920	
512 0.000 0.072 0.000 0.000 0.700 0.700	SI2	0.656	0.672	0.530	0.365	0.705	0.915	
SI3 0.670 0.701 0.533 0.392 0.676 0.924	SI3	0.670	0.701	0.533	0.392	0.676	0.924	
SI4 0.681 0.713 0.525 0.407 0.708 0.915	SI4	0.681	0.713	0.525	0.407	0.708	0.915	

A non-parametric bootstrap method was used to evaluate discriminant values and the Hetero-Trait-Monotrait Score (HTMT<0.90), as well as the HTMT inference rate of the correlations, was determined (T. Q. Dang et al., 2023; Tien, Luan, et al., 2023). All values in Table 5 are less than 1, with lower and upper limits of 95% confidence intervals, thus demonstrating adequate discriminant validity and the proposed variables to be statistically different from each other (Karim et al., n.d.-b). Statistical significance between each item in the sample is different according to this result. In addition, as shown in Table 7, the "Fornell-Larcker criterion test" (Fornell & Larcker, 1981) demonstrated that the coefficients have a lower correlation with the square root of AVE. The cross-load test is also presented in Table 6. The results show that the cross-load is high for connected structures and low for unrelated structures (Henseler et al., 2015).

Table 7. Fornel	l-Larker criter	rion				
	AT	Ш	PEU	PU	OS	SI

¹ Ho Chi Minh City University of Foreign Languages-Information Technology

AT	0.829					
IU	0.703	0.821				
PEU	0.691	0.621	0.815			
PU	0.433	0.473	0.587	0.832		
QS	0.706	0.761	0.591	0.486	0.906	
SI	0.726	0.751	0.587	0.433	0.761	0.919

4.3 Structural model assessment

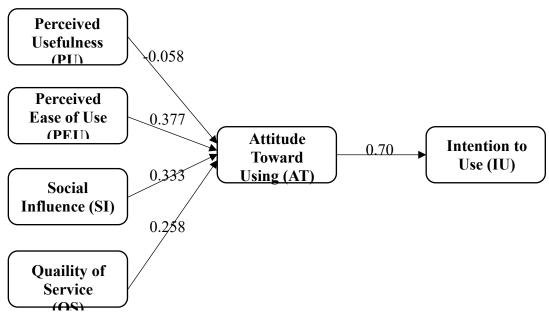


Figure 2. Structural model testing

Next, Standardized Root Mean Square Residual (SRMR) was used to assess the global fit of both the estimation model and the saturation model (Henseler et al., 2016). According to Table 8, the model is considered to be a good fit, because the results of the saturation and estimated models are both lower than 0.08 (Hu & Bentler, 1999). Before evaluating the internal structural model, the collinearity test is also used to check for the presence of highly connected components. There is no problem of multicollinearity because the variance inflation factor (VIF) values for all constructs are lower than the recommended value of 5.0 (Tan & Ooi, 2018).

Table 8. Outcome of the Structural Model Examination

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics (O/STDEV)	P values	Remark
AT -> IU	0.703	0.704	0.039	17.942	0.000	Supported
$PEU \rightarrow AT$	0.377	0.378	0.051	7.462	0.000	Supported
$PU \rightarrow AT$	-0.058	-0.055	0.046	1.265	0.206	Unsupported
$QS \rightarrow AT$	0.258	0.258	0.056	4.595	0.000	Supported
$SI \rightarrow AT$	0.333	0.332	0.058	5.772	0.000	Supported
4.4 Discu	ıssion					

¹ Ho Chi Minh City University of Foreign Languages-Information Technology

The present study extends TAM to the field of mobile payment applications and examines the variables impacting client proposal of the application. The comes about appears that the deliberate to proceed to utilize the app, the customer's fulfilment with the app, and the hedonic benefits inferred from utilizing the app straightforwardly influence the user's purpose to suggest the app. This is often a solid indicator of their app recommender behaviour. Practical benefits have a positive impact on client fulfilment and deliberate to proceed to utilize the app: the more down-to-earth and epicurean benefits the client gets, the more fulfilled they are with the app and the more grounded their deliberate to proceed to utilize the app (Chenyan Xu, Daniel Peak, Victor Prybutok, 2015). In spite of the fact that not a direct determinant, utilitarian benefits were found to apply its impact on purposeful to suggest through fulfillment and app continuation deliberate. This result is in line with de Matos and Rossi's (Celso Augusto de Matos, Carlos Alberto Vargas Rossi, 2008) meta-analysis of earlier WOM writing which concluded that few considers found that item quality (a concept comparable to utilitarian benefits) may be a coordinate predecessor of WOM. The result here suggests that clients don't recommend their apps essentially since they are valuable and tall in quality; in reality, they suggest apps that provide such utilitarian benefits when they are fulfilled with the apps and are willing to proceed to utilize them within the future. This study supports the significant effects of satisfaction on intention to continue using and recommending a mobile payment application. Continued use intention and app recommendation are two dimensions of customer loyalty. Although satisfied customers are not necessarily loyal (which raises concerns that users may not intend to continue using mobile payment applications once satisfied). The conceptual model was at that point tried utilizing PLS-SEM. The result of this examination for the most part backed its proposed speculations, and a few discoveries can be drawn from these comes about (Mahmaod Alrawad, Abdalwali Lutfi, Mohammed Amin Almaiah, Ibrahim A. Elshaer, 2023).

5 Conclusion

In conclusion, mobile payment applications bring many benefits and convenience to users in making purchases of any kind. This research paper has important implications for the field of digitization of payment forms. However, this study still has some limitations. One of the limitations to consider is that the research area only revolves around users in the Ho Chi Minh City area. Therefore, the results of this study are not applicable to areas outside Ho Chi Minh City. To address this huge limitation, I hope that further studies can collect user data in other regions or study other aspects of mobile payment application usage to give a better overview and insight into this field.

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