EURASIAN JOURNAL OF BUSINESS AND MANAGEMENT

www.eurasianpublications.com

EFFECT OF SERVICE QUALITY ON CUSTOMER LOYALTY: THE MEDIATION OF CUSTOMER SATISFACTION, AND CORPORATE REPUTATION IN BANKING INDUSTRY

Ho Dinh Phi

Phan Thiet University, Vietnam Email: dinhphiho@gmail.com

Dien Pham Huong 匝

Corresponding author: Banking University of Ho Chi Minh City, Vietnam Email: dienph@hub.edu.vn

Received: January 31, 2023

Accepted: March 27, 2023

Abstract

This study devotes to investigate the reciprocal relationship between service quality, reputation, satisfaction, and loyalty in the banking sector. Data served the research objectives are collected by a comprehensive survey on 400 customers of the Bank for Investment and Development of Vietnam, Binh Thuan province, Vietnam. The data are then analyzed using the Partial Least Squares-Structural Equation Model (PLS-SEM) approach to examine the above-mentioned complex relationship. The findings confirmed an indirect relationship between service quality and customer loyalty. Particularly, satisfaction, and bank reputation are mediating factors in the relationship between service quality and customer loyalty. Components of service quality include the responsiveness; the tangibles; the assurance; the reliability, and the empathy. The study contributes to enriching the theoretical framework of customer relationship management in the banking sector by its empirical insights. Further studies can invest in other cases of commercial banks in Vietnam, especially in investigating more factors that also play important roles in customer loyalty.

Keywords: Service Quality, Customer Satisfaction, Customer Loyalty, Corporate Reputation, Commercial Banks in Vietnam, Structural Equation Model

1. Introduction

Attracting customers and making them satisfied are a must in any business sector including banking. However, in order to maintain a sustainable market share, it is necessary to have loyal customers. Although an increasing number of studies has been investing in the relationship between satisfaction and service quality, the relationship between service quality, satisfaction, reputation, and loyalty remains little known. This fact leaves a big room for coming studies to

support bankers to tackle the challenges in the context that Vietnam integrates into the global market with aggressive competition in the banking industry.

This research aims at finding out the interrelationship among service quality, customer satisfaction, reputation, and customer loyalty. Particularly, the current study intends to build up a quantitative model for that relationship. To do so, the study employs data collected by a survey on 430 respondents at the Bank for Investment and Development of Vietnam (BIDV), Binh Thuan branch, Vietnam. Bank for investment and development of Vietnam is one of the best retail banks in Vietnam with a large business network expanding across the country and recently they are expanding their business to some other countries including Laos, Cambodia, Myanmar, the Czech Republic, Russia, and Taiwan (BIDV, n.d.). That provides a suitable case for this study as well as to represent the banking sector in Vietnam.

The research expects to enrich the empirical evidence to the related research scheme. The results are expected to shed light on the mediating role of customer satisfaction and corporate reputation in the relationship between customer quality and customer loyalty. The findings will provide useful insights into understanding the customers mind for the banks to improve their level of customer satisfaction, thereby enhancing their business performance. The rest of the paper will be presented as follows. The literature review and research hypotheses are introduced in Section 2. The research model and the methods of data collection and analysis are stated in Section 3. Section 4 presents the research results. Finally, Section 5 concludes the paper.

2. Literature review

2.1. Related theories

In this section, several theories explaining the customer behaviors are introduced. These theories are relevant to this study in clarifying the nature of service quality, satisfaction, reputation, and customer loyalty. They include the theory of service quality (Oliver, 1980), the theory of dissonance (Cardozzo, 1965; Yi, 1990), the theory of corporate reputation (Levitt, 1965; Fombrun, 2000), and the theory of customer loyalty in Sun *et al.* (2013).

When a service does not meet customer expectations, customers will rate the corporate as low quality; and if the corporate's services exceed the customer's expectations, the customer will rate the corporate as high quality (Oliver, 1980).

A person who expects a product of high value and receives a product of low value will perceive difference and experience dissonance (Cardozzo, 1965). That is, unconfirmed expectations create a state of dissonance or psychological discomfort (Yi, 1990). According to this theory, the existence of dissonance creates or relieves pressure, which can be achieved by correcting cognitive disparities. Furthermore, this theory suggests customer satisfaction is the result of assessing the difference between customer expectations and the quality of service received.

Reputation can be defined in terms of a number of attributes that shape buyers' perception of whether the corporation is famous, good or bad, trustworthy, reputable (Levitt, 1965). Corporate reputation is concerned with how people feel about a company based on any information (or misinformation) they have about the corporate's activities, workplace, performance, past performance, and prospects (Fombrun, 2000).

Loyalty is a central concept in customer behavior research (Dimanche and Havitz, 1995). Although customer loyalty has been introduced a long time ago (Sun *et al.* 2013), it remains a controversial and well-known topic among scholars (Kim and Brown, 2012; Weaver and Lawton, 2011) because this concept is considered one of the most important indicators of business success. The definition of customer loyalty is based on two main components, namely, attitudes and behaviors (Hughes, 1991). A loyalty attitude refers to an individual's desire to continue a relationship with a service or product supplier, while loyalty behavior reflects the continued patronage of an individual for a place or product (Morais and Lin, 2010). According to Oliver (1999), customer loyalty is a profound commitment to repurchase or re-patronize a preferred product/service consistently in the future. Loyalty is also considered an important trait for marketers because it is connected to many desires at a lower cost, including retaining existing customers rather than attracting new customers (Loureiro and González, 2008).

2.2. Service quality and customer satisfaction

Oliver (1980) affirmed that if a business fails to serve their customers' needs, they must face the negative judgment from their customers but if their service can meet the customer expectations exceeded, the quality of the service is confirmed by their customers. Service quality is an obligation to verify that the requirements and expectations of the customers are met, and the customers are satisfied. According to Parasuraman *et al.* (1985), customers are the ones who decide whether the service is qualified or not. Those authors introduced five dimensions of service quality including:

- (i) Tangibles refers to facilities such as symbols, features, availability, capaciousness, hygiene, tools, or equipment that are used to deliver the service and the appearance of employees as learned from previous studies for examples Rad *et al.* (2010) and Caruana and Berthon (2002).
- (ii) Reliability indicates the ability to provide dependable and precise services as customers expect such as on time delivery, accurate information, or reliable promises adopted from previous studies such as Crompton and Mackay (1989) and Kondasani and Panda (2015).
- (iii) Responsiveness concerns the willingness of the providers to offer services swiftly to the customers (Calisir *et al.* 2011; Modding, 2016).
- (iv) Assurance refers to the knowledge, consideration, confidence, and ability of the company and their staff to connect with their customers (Kitapci *et al.* 2014).
- (v) Empathy describes the extent in which the service providers can understand and concern their customers' needs and interests (Zarei *et al.* 2015).

SERVQUAL stands for service quality, which is a measurement model that is widely used among the researchers. It provides a comprehensive concept of measuring service quality. A number of studies have employed the concepts of service quality and research models that have been done for various developing countries in previous studies, for example Kondasani and Panda (2015) and Anjalika and Priyanath (2018). Similarly, many studies have been conducted for the banking sector, for instance, the study of banks in Penang, Malaysia applies the SERVQUAL model to measure service quality (Kheng *et al.* 2010). Similar studies have been conducted for other cases in the banking sector, for examples, Anjalika and Priyanath (2018), Aggarwal (2019) and Farzana *et al.* (2022). Based on the above-mentioned background, this study is going to employ the five components of service quality including Tangibles, Reliability, Responsiveness, Assurance, and Empathy to investigate the chosen case study.

According to Oliver (1980), customer satisfaction is the emotional status representing the difference between the feeling before and after using a product or service. Customer satisfaction results from the marketing efforts of a business. It assesses customer attitudes from the purchase of a product or service that relates to after-sales services (Patterson, 2000; Lim and Tang, 2000; Wirtz and Lee, 2003; Jamal and Naser, 2003; Mishra, 2009). Customer satisfaction can be at different levels including either a satisfying feeling or an unpleasant feeling that is created by the gap between what the customers expected and what they really experienced (Brady and Robertson, 2001). It is extremely crucial to have a high level of customer satisfaction for any kind of business as the same as in the banking sector. Therefore, making customers more satisfied is beneficial for the banks. Otherwise, if a bank fails to satisfy their customers, it can harm its profitability (e.g., Hennayake, 2017).

Customer loyalty is the individual attitude of the customers that leads them to buy certain products or services often. The ultimate goal of doing business is to reach out to more customers to make them satisfied and loyal that make them not only buy more but also to recommend it to others (Oliver, 1999). Customer loyalty indicates the tendency in which a customer buys and uses a particular brand's product or service among other alternatives in the market and inclination to repeat that behavior that determines the attachment attitudes or behaviors to a product or service provider (Chaudhuri and Holbrook, 2001). Therefore, there are two dimensions based on them to measure customer loyalty as followed:

- (i) The first approach is to examine loyalty by the repeated purchasing behaviors of the customers, or it can be observed by the frequency that the customers use a product or a service. According to this approach, loyalty is considered as the commitment that a customer will buy or will use a product or service given that the fluctuated market situations affected by different factors lead to changes in behaviors of those customers.
- (ii) The second approach is to measure customer loyalty by interpreting customers' attitudes. Customers' attitude is the intention to consume or to use a product or service (Kabiraj and Shanmugan, 2011). To be more specific, customer loyalty is conveyed by the customers' supportive attitude towards a product or service and their intent to use it over time (Javalgi and Moberg, 1997).

Loyalty of customers brings benefits to the company by reducing costs and enhancing the production - business progress of the business (Rundle-Thiele and Russell-Bennett, 2001). According to Bloemer and Kasper (1995), loyalty is not just about repeating the purchases but it's the achievement of a brand of making customers truly loyal. Donio *et al.* (2006) affirm that customer loyalty can be measured by surveying the following questions: how much the customers like the brand, how much do they feel attached to it, will they recommend it to others, and do they have positive feelings about it? Having loyal customers accept to pay higher price for a product and a loyal customer spreads word-of-mouth effect effectively (Gee *et al.* 2008). Therefore, Walsh *et al.* (2005) point out the importance of taking care of the existing customers even more than acquiring new customers because it's more costly to obtain new customers than to retain existing and loyal customers.

2.3. Relationship between service quality and satisfaction

There is an increasing number of studies paying attention to service quality and customer satisfaction in business. Many of them found a positive relationship between customer satisfaction and service quality (e.g., Budianto, 2019; Jamal and Naser, 2003; Tseng, 2019; Aggarwal, 2019; Zameer *et al.* 2019; Afthanorhan *et al.* 2019). Factors that intervene the relationship between satisfaction and service quality is little known that leaves room for study efforts.

Customer satisfaction has a broader meaning while service quality plays just a partial role in that (Alan *et al.* 2016). Besides there are other factors that contribute to customer satisfaction including service delivery and customer experience. Satisfaction is the post-consumed experience and the comparison of perceived quality with the expected quality, while service quality refers to the overall evaluation of a service delivery system (Anderson *et al.* 1994). The current competitive trend in the banking sector demonstrates that customer satisfaction increases the performance of a bank (Siddiqi, 2010). Therefore, commercial banks need to control the quality of their services on a regular basis to satisfy customers better and to improve customer retention and thereby enhance their loyalty (Khan and Fasih, 2014). To achieve a better level of service quality, bank managers develop services whose service quality is assured to increase customer satisfaction (Ladeira *et al.* 2016). Indeed, many studies found a positive relationship between service quality and satisfaction in the banking industry, for instance Islam *et al.* (2021) and Supriyanto *et al.* (2021). Based on the abovementioned literature review, the following hypotheses in this study are proposed:

*H*₁: Tangibles factor has a significant and positive impact on customer satisfaction.

 H_2 : Reliability has a significant and positive impact on customer satisfaction.

H₃: Assurance has a significant and positive impact on customer satisfaction.

H₄: Responsiveness has a significant and positive impact on customer satisfaction.

 H_5 : Empathy has a significant and positive impact on customer satisfaction.

2.4. Relationship among service quality, reputation, and loyalty

When the service quality of a bank cannot be directly observed, consumers rely on its reputation for their decision - making (Chang and Lee, 2020). Szwajca (2018) found banks with high reputation ratings have poor customer loyalty in the Polish banking context. On the other hand, Ozkan et al. (2020) found that corporate reputation increases customer loyalty in the Turkish banking context. The study of the banking sector in Indonesia by Darmawan et al. (2017) and Burhanudin (2022) found service quality impacts a bank's reputation and this reputation leads to customer loyalty. The study of the banking sector in Pakistan by Ali et al. (2014) indicated bank reputation impacted loyalty. When the bank has a high reputation, customers will probably be committed to that bank (Bartikowski et al. 2011). It is because the bank's reputation can prevent negative attitudes and behavior from customers, including in times of crisis and more significant uncertainty (Ruiz et al. 2014). Loyalty is considered an important outcome in corporate reputational studies, both in general (Bartikowski et al. 2011) and in the banking industry (Ruiz et al. 2014). The study on the case of banks in Penang, Malaysia asserted the positive impact of customer satisfaction on customer loyalty (Kheng et al. 2010; Anjalika and Priyanath, 2018). Similarly, research on the case of the private banking industry in Bangladesh, Pakistan indicated that service quality impacts satisfaction positively, and thereby affects customer loyalty (Zafar et al., 2012; Hafeez and Muhammad, 2012; Karim, 2019; Supriyanto et al. 2021). Based on the above-mentioned literature review, the following hypotheses in this study are proposed:

- *H*₆: Tangibles positively impact the bank's reputation.
- *H₇: Reliability positively impacts the bank's reputation.*
- *H*₈: Assurance positively impacts the bank's reputation.
- *H*₉: Responsiveness positively impacts the bank's reputation.
- H₁₀: Empathy impacts positively the bank's reputation.
- H_{11} : The bank's reputation significantly affects customer loyalty to the bank.
- H₁₂: Customer satisfaction significantly impacts customer loyalty.

3. Research model and data collection

The following is the research model proposed in this study to obtain the objectives abovementioned objectives by testing the hypotheses from 1 to 12 as illustrated in Figure 1.



Figure 1. Proposed research model

Theoretical review and empirical research are needed for further research to extend the theory, provide more empirical evidence and policy implications related to service quality, satisfaction, reputation, and customer loyalty. Previous studies highlight insights into the impact of the above relationships and measure relationships using different quantitative models, independent metrics such as exploratory factor analysis or separate regression models, but do not provide an adequate basis for a comprehensive analytical framework on loyalty. Therefore, the aim of this study is to extend the findings from previous studies on the above relationship and integrate analysis of the relationships in the structural equation model. In line with the literature study conducted, the research model was developed to meet the objectives of this study. The model proposed in this study is summarized in Figure 1.

All scales are adjusted from previous studies with some adjustments to suit the research context in Vietnam. Particularly, the scales were adopted from Karim (2019) who conducted a related study on the case of Bangladesh banks. We designed three processes to conduct surveys. First, we surveyed using the expert method to discuss with banking industry experts, including 10 experts with at least five years of experience working at the banking management Department in Phan Thiet City. They then suggested some adjustments to ensure that the questionnaire is relevant to the banking industry in Vietnam. Second, a pilot survey with 20 respondents who are BIDV's customers to check the survey questionnaire was free of errors and the content was appropriate. The survey sample was selected based on the respondents' willingness to participate in the study. Finally, a total of 430 respondents from BIDV is the study sample selected.

A five-point Likert scale was used to measure all items in the survey questionnaire. The scale ranges from 1 meaning "strongly disagree" to 5 meaning "strongly agree". There are 25 items in the questionnaire used to measure customer loyalty. Those scales were adopted from the study done on the banking industry in Bangladesh by Karim (2019). This study contributes to the extent to which new items were added based on the result of focus group discussions (details of the measurement items can be provided upon requests).

The survey was conducted at the Bank for Investment and Development of Vietnam, Binh Thuan branch. All respondents were found to be customers who had transactions with BIDV. At first, the questionnaires were delivered to approximately 430 observations. It took two months to complete this data collection process. The data were after that cleaned to find 400 observations that are valid for the data analysis in the next steps.

This study used the Partial Least Squares-Structural Equation Modeling (PLS-SEM) approach with support from SPSS and AMOS 21.0 to validate the research hypotheses. PLS-SEM is a suitable method for testing a complicated model with many simultaneous identifications of multiple drivers (Anderson and Gerbing, 1988). The processing procedure includes four steps including testing the scale reliability, conducting an exploratory factor analysis as well as a confirmatory factor analysis and finally employing Structural Equation Model to test the research hypotheses (Hair *et al.* 2006; Kline, 2011).

4. Research results 4.1. Sample description

The sample includes 400 observations who are customers of the BIDV, Binh Thuan branch. Based on the data collected from the comprehensive questionnaire, some characteristics of the respondents are summarized in Table 1.

Table 1 shows that among the 400 respondents, the male gender accounts for 54%. The majority of respondents have college degrees (53%). Regarding customer age and occupation, the age mainly is 31-45 years (45%). The occupation is mainly agency staff (40%). Regarding customer income, the income of the respondents is mainly from 10-20 million VND/Month (35%).

Table 1. Descriptive statistics						
GENDER	Freq.	Percent	Cum.			
Female	183	45.75	45.75			
Male	217	54.25	100.00			
AGE	Freq.	Percent	Cum.			
<=30	71	17.75	17.75			
31-45	180	45.00	62.75			
46-55	89	22.25	85.00			
>55	60	15.00	100.00			
CAREER	Freq.	Percent	Cum.			
Agency staff	159	39.75	39.75			
Managers	128	32.00	71.75			
Workers	69	17.25	89.00			
Students	44	11.00	100.00			
QUALIF	Freq.	Percent	Cum.			
High school	51	12.75	12.75			
University and Postgraduate	137	34.25	47.00			
College	212	53.00	100.00			
INCOME	Freq.	Percent	Cum.			
<10 million VND	43	10.75	10.75			
10-20 million VND	140	35.00	45.75			
21-30 million VND	112	28.00	73.75			
>30 million VND	105	26.25	100.00			

Source: Authors' calculations

4.2. Reliability analysis

The scale reliability tests show that among the initiated 35 observed variables were used to measure research concepts. Some items including TAN5, RES5, ASS5 must be eliminated due to low item-total correlation (smaller than 0.3). There are 32 variables that satisfy the conditions in the reliability analysis with the Cronbach Alpha coefficients larger than 0.6 and the variable-total correlation is larger than 0.3 (Nunnally and Burnstein, 1994).

No.	Scales	Disqualified variables	Alpha coefficient	Results			
1	TAN	TAN5	0.799	Satisfied			
2	REL	None	0.867	Well-satisfied			
3	RES	RES5	0.843	Well-satisfied			
4	ASS	ASS5	0.830	Well-satisfied			
5	EMP	None	0.842	Well-satisfied			
6	SAT	None	0.852	Well-satisfied			
7	REP	None	0.839	Well-satisfied			
8	LOY	None	0.856	Well-satisfied			
Source: Authors' calculations							

Table 2. Cronbach Alpha coefficients

4.3. Exploratory factor analysis

Results described in Table 3 demonstrated that all variables meet requirements for validity. Particularly, measuring items of service quality are extracted to five factors corresponding to measured variables of five concepts. The cumulative variance is 65.430% at an Eigenvalue of 1.763. The measuring items of customer satisfaction form 3 factors with the variance of 77.145% at an Eigenvalue of 2.314. The measuring items of the reputation are extracted into 3 factors with the variance of 75.665% at an Eigenvalue of 2.270. The measuring items of loyalty are extracted into 4 factors with an average variance extracted of 69.961% at an Eigenvalue of 2.798. The results of Exploratory Factor Analysis results below were created by using the promax rotation method.

Compone	nt				_		_	
	1	2	3	4	5	6	7	8
REL5	0.835							
REL3	0.830							
REL2	0.815							
REL1	0.798							
REL4	0.758							
EMP4		0.803						
EMP3		0.792						
EMP5		0.790						
EMP2		0.785						
EMP1		0.734						
RES3			0.857					
RES4			0.831					
RES2			0.800					
RES1			0.780					
ASS3				0.824				
ASS4				0.822				
ASS2				0.810				
ASS1				0.774				
TAN4					0.816			
TAN2					0.798			
TAN3					0.781			
TAN1					0.744			
SAT2						0.901		
SAT1						0.870		
SAT3						0.864		
REP3							0.883	
REP1							0.879	
REP2							0.846	
LOY3								0.868
LOY4								0.837
LOY2								0.836
LOY1								0.803
Kaiser-Me	eyer-Olkin N	Measure			0.848	0.722	0.721	0.814
Bartlett te	st (sig.)				0.000	0.000	0.000	0.000
Eigenvalu	es				1.763	2.314	2.270	2.798
% of Varia	ance				65,430	77.145	75.665	69,961
Natas Assas	1° 4 11 °	() (0000)	0.5 1/1/0			0.05.5.1		

Table 3. Results of exploratory factor analysis

Note: According to Hair *et al.* (2006), 0.5 < KMO <1; Bartlett has the level < 0.05; Factor loading > 0.3, % of variance > 50% and Eigenvalue > 1.

Source: Authors' calculations

4.4. Confirmatory factor analysis

Figure 2 presents the results of Confirmatory Factor Analysis (CFA). Basically, the results confirm the research hypotheses on the formation of the factors in the research model. The measurement model that is consistent with the actual data must be consistent with five measures: (i) Cmin/df; (ii) TLI, (iii) CFI, (iv) NFI; and (v) RMSEA (Gefen *et al.* 2011).



Figure 2. Confirmatory factor analysis results Source: Authors' calculations

Table 4 shows that the measurement model is in line with the actual data.

Table 4. The fit indices of the C	FA
-----------------------------------	----

No.	Measure	Standard value	Model value	Result
1	Chi-squared adjusted for degrees of freedom (Cmin/df)	TLI, the closer it is to 1, the more appropriate; TLI > 0.90 Consistent; TLI \ge 0.95 is in good agreement (Bentler and Bonett, 1980; Bagozii and Jy, 1988).	1.990	Good
2	Tucker-Lewis Index	The closer the TLI is to 1, the more appropriate; TLI > 0.90 Consistent; TLI > 0.95 in good agreement (Hu and Bentler, 1998).	0.934	Good
3	Comparative Fit Index	CFI > 0.90; 0 <cfi (hu="" 1,="" 1998).<="" <1,="" and="" bentler,="" closer="" more="" suitable="" td="" the="" to=""><td>0.942</td><td>Good</td></cfi>	0.942	Good
4	Normal Fit Index	NFI, the closer to 1, the more suitable; NFI close to 0.90, accepted; NFI > 0.95 Good fit (Chin and Todd, 1995; Hu and Bentler, 1998).	0.891	Accept
5	Root Mean Square Error Approximation	RMSEA < 0.05, the model fits well; RMSEA < 0.08, accepted; The smaller the better (Browne and Cudeck, 1993).	0.046	Good

Source: Authors' calculations

4.5. Structural equation analysis

Results of Figure 3 show that the model has Cmin/df = 2.512; TLI = 0.900; CFI = 0.909; NFI = 0.858; and RMSEA = 0.057. This proves that the integrated model is in line with the actual data.



CMIN/df=2.512; TLI=.900;CFI=.909; NFI=.858;RMSEA=.057

Figure 3. Results of the structural equation modeling Source: Authors' calculations

In Table 5, all hypotheses are accepted with 95% confidence level or higher (P_value \leq 0.05).

Table 5. Hypothesis test result								
Hypothesis	Impact			Estimate	S.E.	C.R.	Р	Results
H2	SAT	<	REL	0.394	0.043	9.158	***	Accepted
H5	SAT	<	EMP	0.233	0.044	5.286	***	Accepted
H3	SAT	<	RES	0.388	0.049	7.870	***	Accepted
H4	SAT	<	ASS	0.295	0.048	6.208	***	Accepted
H1	SAT	<	TAN	0.378	0.051	7.418	***	Accepted
H7	REP	<	REL	0.415	0.043	9.654	***	Accepted
H10	REP	<	EMP	0.207	0.043	4.821	***	Accepted
H8	REP	<	RES	0.340	0.047	7.166	***	Accepted
H9	REP	<	ASS	0.302	0.047	6.445	***	Accepted
H6	REP	<	TAN	0.358	0.050	7.215	***	Accepted
H12	LOY	<	SAT	0.343	0.066	5.167	***	Accepted
H11	LOY	<	REP	0.442	0.070	6.291	***	Accepted
NI 1 +++ /0'								

Note: *** (Sig. = 0.000).

Source: Authors' calculations

In Table 6, factors affecting "Customer satisfaction" are in order of influence: REL, RES, TAN, ASS, and EMP. Factors affecting "Reputation" are in order of influence: REL, TAN, RES, ASS, and EMP. Factors affecting "Loyalty" in the order of influence: SAT, and REP.

	Impac	is of the fa	CTORS		
Impacts on SAT			Estimate	%	Position
SAT = f(TAN, REL, ASS, RES, EMP)					
SAT	<	REL	0.394	23.3	1
SAT	<	EMP	0.233	13.8	5
SAT	<	RES	0.388	23.0	2
SAT	<	ASS	0.295	17.5	4
SAT	<	TAN	0.378	22.4	3
Total			1.688	100	
Impacts on REP					
REP = f(TAN, REL, ASS, RES, EMP)					
REP	<	REL	0.415	25.6	1
REP	<	EMP	0.207	12.8	5
REP	<	RES	0.340	21.0	3
REP	<	ASS	0.302	18.6	4
REP	<	TAN	0.358	22.1	2
Total			1.622	100	
Impacts on LOY					
LOY = f(SAT, REP)					
LOY	<	SAT	0.343	44	2
LOY	<	REP	0.442	56	1
Total			0.785	100	
-					

Tahlo	6	Imnacts	of the	factors
ם מעופ	υ.	IIIIDacis	UI LIIE	Idulois

Source: Authors' calculations

5. Discussion

According to the abovementioned empirical results, some important insights can be concluded. First, the results confirmed the appropriate scales used to measure various factors of customer satisfaction with the bank's service quality including the reliability of the bank and its services, the ability to respond to customers' demands, the tangible assets to serve customers, the assurance of providing services and finally the empathy that bank's employees showing to their customers. The results are aligned with previous studies in the banking industry in other countries that were found by previous studies, for example, with the results from the study done in Bangladesh by Karim (2019). Second, the novel of this study added new items to the measurement of the factors including the professional manner of the staff, the convenience and completeness of the services, the agility of serving customers and responding to the customers' complaints, the security of customers' data, and the promptness of serving customers' urgent events via phone. Those items particularly fit in the situation of the banking sector in Vietnam.

Furthermore, the results shed light on the positive impact of the abovementioned factors on the bank's reputation. As a result, together with enhancing customer satisfaction, the bank can improve their reputation by boosting the factors such as their tangible assets, reliability, responsiveness, assurance, and empathy that they offer to their customers. Additionally, the study affirms that customer satisfaction positively affects customer loyalty. That finding agrees with the findings about the banking industry in Sri Lanka of Anjalika and Priyanath (2018). Thus, in order to maintain customer loyalty, banks must improve customer satisfaction. Lately, the result asserts that reputation is positively correlated with customer loyalty. This result approves the finding of a previous study on banks in Turkey of Ozkan *et al.* (2020). That finding suggests that bankers should take reputation into account to improve customer loyalty because it can be approved in the results that reputation plays a crucial role in the customers' retention.

6. Conclusion

The current study obtains its target on extending the theoretical framework of the related research area to strengthen the methodology in the field. It also provides important empirical evidence of the relationship among service quality, satisfaction, reputation, and their impact on customer loyalty, illustrated by the case of the BIDV in Vietnam, one of the biggest banks in Vietnam. The findings of this study therefore can be considered by other commercial banks in Vietnam and other similar countries. It highlights a strong mediating role of satisfaction and reputation in the interrelation between service quality and customer loyalty. Hence, this study provides some insights into the current research about the relationship between service quality and loyalty in the banking sector.

Beside its above crucial contributions, there are still some limitations in this study that leaves room for future studies. This study has its limit to the case study of the Bank for Investment and Development of Vietnam. Furthermore, the sample is limited to one branch of the bank. Further studies can extend the sample size or invest in a pooled sample including customers from different banks to empower the study findings. Finally, the target of the current research is the relationship between service quality, satisfaction, reputation, and loyalty; whereas there might be more factors that also have impacts on customer loyalty which were not included in the research model. Further studies can invest in extending the research model to increase its explanation power to bring more insights into practices in the banking business sector, not only in Vietnam but also in other countries alike.

References

- Afthanorhan, A., Awang, Z., Rashid, N., Foziah, H., and Ghazali, P., 2019. Assessing the effects of service quality on customer satisfaction. *Management Science Letters*, 9(1), pp. 13-24. <u>https://doi.org/10.5267/j.msl.2018.11.004</u>
- Aggarwal, V., 2019. An empirical study on factors affecting service quality perceptions and its impact on customer satisfaction in home finance companies. *Asian Journal of Multidimensional Research (AJMR*), 8(1), pp. 106-114. <u>https://doi.org/10.5958/2278-4853.2019.00009.0</u>
- Alan, W., Bitner, M. J., Zeithaml, V. Z., and Gremler, D. D., 2016. Services marketing: Integrating customer focus across the firm. Edition: 3rd European Edition Publisher: McGraw Hill
- Ali, R., Leifu, G. and Rehman, R., 2014. Factors influencing customer loyalty of banking industry: empirical evidence from Pakistan. *International Journal of Learning and Development*, 4(2), pp. 9-26. https://doi.org/10.5296/ijld.v4i2.5029
- Anderson, E. W., Fornell, C., and Lehmann, D. R., 1994. Customer satisfaction, market share, and profitability: Findings from Sweden. *Journal of Marketing*, 58(3), pp. 53-66. <u>https://doi.org/10.1177/002224299405800304</u>
- Anderson, J. C., and Gerbing, D. W., 1988. Structural equation modeling in practice: A review and recommended two-step approach. *Journal of Psychological Bulletin*, 103 (3), pp. 411-423. <u>https://doi.org/10.1037/0033-2909.103.3.411</u>
- Anjalika, W. P. W., and Priyanath, H. M. S., 2018. Effect of service quality on customer satisfaction: An empirical study of customers who have bank accounts in both public and private banks in Sri Lanka. *International Journal of Marketing and Technology*, 8(1), pp. 11-36.
- Bagozii, R. B., and Jy, I., 1988. On the evaluation of structural equation model. *Journal of the Academy of Marketing Science,* 16, pp. 74-94. <u>https://doi.org/10.1007/BF02723327</u>
- Bartikowski, B., and Walsh, G., 2011. Culture and age as moderators in the corporate reputation and loyalty relationship. *Journal of Business Research*, 64(9), pp. 966-972. https://doi.org/10.1016/j.jbusres.2010.11.019
- Bentler, P. M., and Bonett, D. G., 1980. Significance tests and goodness of fit in the analysis of covariance structures. *Psychological Journal*, 32(1), pp. 87-104.

- BIDV n.d. About BIDV [online] https://www.bidv.com.vn/en/ve-bidv [Accessed on 24 May 2023].
- Bloemer, J. M., and Kasper, H. D., 1995. The complex relationship between consumer satisfaction and brand loyalty. *Journal of Economic Psychology*, 16(2), pp. 311-329. <u>https://doi.org/10.1016/0167-4870(95)00007-B</u>
- Brady, M. K. and Robertson, C. J., 2001. Searching for a consensus on the antecedent role of service quality and satisfaction: an exploratory cross-national study. *Journal of Business research*, 51(1), pp. 53-60. <u>https://doi.org/10.1016/S0148-2963(99)00041-7</u>
- Browne, M. W., and Cudeck, R., 1993. Alternative ways of assessing model fit. In: K. A. Bollen and J. S. Long eds. 1993. *Testing structural equation models*. Newbury Park, CA: Sage Publications.
- Budianto, A., 2019. Customer loyalty: Quality of service. *Journal of Management Review,* 3(1), pp. 299-305. <u>https://doi.org/10.25157/jmr.v3i1.1808</u>
- Burhanudin, B., 2022. Examining the effect of service value and reputation on customer loyalty with trust and electronic word of mouth as mediation. *Journal of Applied Management* (JAM), 20(3), pp. 514-527. <u>https://doi.org/10.21776/ub.jam.2022.020.03.05</u>
- Calisir, F., Altin, C., and Iskin, I., 2011. Factors affecting intention to quit among IT professionals in Turkey. *Personnel Review*, 40(4), pp. 514-533. <u>https://doi.org/10.1108/00483481111133363</u>
- Cardozo, R. N., 1965. An experimental study of customer effort, expectation, and satisfaction. *Journal of Marketing Research*, 2(3), pp. 244-249. https://doi.org/10.1177/002224376500200303
- Caruana, A. M., and Berthon, P. R., 2002. Service quality and satisfaction and the mediating role of value. *European Journal of Marketing*, 34, pp. 1338-1352. https://doi.org/10.1108/03090560010764432
- Chang, J. I., and Lee, C. Y., 2020. The effect of service innovation on customer behavioral intention in the Taiwanese insurance sector: The role of word of mouth and corporate social responsibility. *Journal of Asia Business Studies*, 14(3), pp. 341-360. https://doi.org/10.1108/JABS-06-2018-0168
- Chaudhuri, A., and Holbrook, M. B., 2001. The chain of effects from brand trust and brand affect to brand performance: The role of brand loyalty. *Journal of Marketing*, 65(2), pp. 81-93. https://doi.org/10.1509/jmkg.65.2.81.18255
- Chin, W. W., and Todd, P. A., 1995. On the use, usefulness, and ease of use of structural equation modeling in MIS research: A note of caution. *MIS Quarterly*, 19(2), pp. 237-246. https://doi.org/10.2307/249690
- Crompton, J. L., and Mackay, K. J., 1989. Users' perceptions of the relative importance of service quality dimensions in selected public recreation programs. *Leisure sciences*, 11, pp. 367-375. <u>https://doi.org/10.1080/01490408909512233</u>
- Darmawan, D., Mardikaningsih, R., and Hadi, S., 2017. The effect of service quality, customer satisfaction and corporate image on customer loyalty in the banking sector in Indonesia. *Journal of Business and Management*, 19(11), pp. 46-51. https://doi.org/10.31219/osf.io/uxsfr
- Dimanche, F., and Havitz, M. E., 1995. Consumer behavior and tourism: Review and extension of four study areas. *Journal of Travel & Tourism Marketing*, 3(3), pp. 37-57. https://doi.org/10.1300/J073v03n03_03
- Donio, J., Massari, P., and Passiante, G., 2006. Customer satisfaction and loyalty in a digital environment: An empirical test. *Journal of Consumer Marketing*, 23(7), pp. 445-457. https://doi.org/10.1108/07363760610712993
- Farzana, S., Harikumar, G., Shankaranarayanan, S., and Vikram, N., 2022. Study on the impact of service quality on the customer satisfaction due to e-banking services of public sectors banks in Chennai. *Journal of Statistics and Management Systems*, 25(5), pp. 1205-1213. <u>https://doi.org/10.1080/09720510.2022.2094554</u>
- Fombrun, C., 2000. The value to be found in corporate reputation. *Financial Times*, 4 December. <u>https://doi.org/10.1057/palgrave.crr.1540094</u>

- Gee, R., Coates G., and Nicholson, M., 2008. Understanding and profitably managing customer loyalty. *Marketing Intelligence and Planning*, 26(4), pp. 359-374. https://doi.org/10.1108/02634500810879278
- Gefen, D., Rigdon, E., and Straub, D., 2011. An update and extension to SEM guidelines for administrative and social science research. Editorial Comment. *MIS Quarterly* 35(2), pp. III-XII. <u>https://doi.org/10.2307/23044042</u>
- Hafeez, S., and Muhammad, B., 2012. The impact of service quality, customer satisfaction and loyal programs on customer' loyaty: Evidence from banking sector of Pakistan. *International Journal of Business and Social Science*, 3(16), pp. 200-209.
- Hair, J., Aderson, R., Tatham, P., and Black, W., 2006. *Multivariate data analysis.* 6. eds. Upper Saddle River, N.J.: Prentice-Hall.
- Hennayake, Y., 2017. Impact of service quality on customer satisfaction of public sector commercial banks: A study on rural economic context. *International Journal of Scientific* and Research Publications, 7(2), pp. 156-161.
- Hu, L.T., and Bentler, P. M., 1995. Evaluating model fit. In: R. H. Hoyle. ed. 1995. *Structural equation modeling: Concepts, issues, and applications*. Thousand Oaks, CA: Sage.
- Hughes, K. 1991. Tourist satisfaction: a guided cultural tour in north Queensland. Australian Psychologist, 26(3), pp. 166-171. <u>https://doi.org/10.1080/00050069108257243</u>
- Islam, R., Ahmed, S., Rahman, M., and Asheq, A., 2021. Determinants of service quality and its effect on customer satisfaction and loyalty: an empirical study of private banking sector. *The TQM Journal*, 33(6), pp. 1163-1182. <u>https://doi.org/10.1108/TQM-05-2020-0119</u>
- Jamal, A., and Naser, K., 2003. Factors influencing customer satisfaction in the retail banking sector in Pakistan. *International Journal of Commerce and Management*, 13(2), p. 29. https://doi.org/10.1108/eb047465
- Javalgi, R. R. G., and Moberg, C. R., 1997. Service loyalty: implications for service providers. *Journal of Services Marketing*, 11(3), pp. 165-179. https://doi.org/10.1108/08876049710168663
- Kabiraj, S., and Shanmugan, J., 2011. Development of a conceptual framework for brand loyalty: A Euro-Mediterranean perspective. *Journal of Brand Management*, 18(4/5), pp. 285-299. <u>https://doi.org/10.1057/bm.2010.42</u>
- Karim, R. A., 2019. Influence of service quality on customer satisfaction and customer loyalty in the private banking sector of Bangladesh: A PLS approach. *Journal of Marketing and Information System*, 1(3), pp. 8-17. <u>https://doi.org/10.31580/jmis.v1i3.1049</u>
- Khan, M. M. and Fasih, M., 2014. Impact of service quality on customer satisfaction and customer loyalty: Evidence from banking sector. *Pakistan Journal of Commerce and Social Sciences (PJCSS)*, 8(2), pp. 331-354.
- Kheng, L. L., Mohamad, O., Ramayah, T., and Rahim, M., 2010. The impact of service quality on customer loyalty: A study of banks in Penang, Malaysia. *International Journal of Marketing Studies*, 2(2), pp. 57-66. <u>https://doi.org/10.5539/ijms.v2n2p57</u>
- Kim, A. K., and Brown, G., 2012. Understanding the relationships between perceived travel experiences, overall satisfaction, and destination loyalty. *Anatolia*, 23(3), pp. 328–347. https://doi.org/10.1080/13032917.2012.696272
- Kitapci, O., Akdogan, C., and Dortyol, İ.T., 2014. The impact of service quality dimensions on patient satisfaction, repurchase intentions and word-of-mouth communication in the public healthcare industry. *Social and Behavioral Sciences*, 148, pp. 161-169. https://doi.org/10.1016/j.sbspro.2014.07.030
- Kline, R. B., 1998. *Principles and practice of structural equation modeling.* New York: Guilford Press.
- Kondasani, R. K. R. and Panda, R. K., 2015. Customer perceived service quality, satisfaction and loyalty in Indian private healthcare. *International Journal of Health Care Quality Assurance*, 28(5), pp. 452-467. <u>https://doi.org/10.1108/IJHCQA-01-2015-0008</u>
- Ladeira, W. J., Santini, F. D. O., Sampaio, C. H., Perin, M. G., and Araújo, C. F., 2016. A metaanalysis of satisfaction in the banking sector. *International Journal of Bank Marketing*, 34(6), pp. 798-820. <u>https://doi.org/10.1108/IJBM-10-2015-0166</u>
- Levitt, T., 1965. Exploit the product life cycle. Harvard Business Review, 43, pp. 81-94.

- Lim, P. C., and Tang, N. K. H., 2000. A study of patients' expectations and satisfaction in Singapore hospitals. *International Journal of Health Care Quality Assurance*, 13(7), pp. 290-299. <u>https://doi.org/10.1108/09526860010378735</u>
- Loureiro, S. M. C., and González, F. J. M., 2008. The importance of quality, satisfaction, trust, and image in relation to rural tourist loyalty. *Journal of Travel & Tourism Marketing*, 25, pp. 117–136. <u>https://doi.org/10.1080/10548400802402321</u> Mishra, A. A., 2009. A study on customer satisfaction in Indian retail banking. *IUP Journal* of Management Research, 8(11), p. 45-61.
- Modding, S.B., Semmaila, B., and Gani, A., 2016. Effect of service quality and marketing stimuli on customer satisfaction: The mediating role of purchasing decisions. *Journal of Business and Management Sciences*, 4(4), pp. 76-81.
- Morais, D. B., and Lin, C. H., 2010. Why do first-time and repeat visitors patronize a destination? *Journal of Travel & Tourism Marketing*, 27(2), pp. 193–210. https://doi.org/10.1080/10548401003590443
- Nunnally, J. C., and Burnstein, I. H., 1994. Psychometric theory. New York: McGraw Hill.
- Oliver, R., 1999. Whence consumer loyalty? *Journal of Marketing*, 63, pp. 33–44. https://doi.org/10.2307/1252099
- Oliver, R.L., 1980. A cognitive model of the antecedents and consequences of satisfaction decisions. *Journal of Marketing Research*, 17(4), pp. 460-469. https://doi.org/10.1177/002224378001700405
- Ozkan, P., Suer, S., Keser, I. K. and Kocakoc, I. D., 2020. The effect of service quality and customer satisfaction on customer loyalty: The mediation of perceived value of services, corporate image, and corporate reputation. *International Journal of Bank Marketing*, 38(2), pp. 384-405. <u>https://doi.org/10.1108/IJBM-03-2019-0096</u>
- Parasuraman, A., Zeithaml, V. A., and Berry, L. L., 1985. A conceptual model of service quality and its implications for future research. *Journal of Marketing*, 49(3), pp. 41-50. https://doi.org/10.1177/002224298504900403
- Patterson, P. G., 2000. A contingency approach to modelling satisfaction with management consulting services. *Journal of Services Research*, 3(2), pp. 138-153. https://doi.org/10.1177/109467050032003
- Rad, N. F., Som, A. P. M., and Zainuddin, Y., 2010. Service quality and patients' satisfaction in medical tourism. *World Applied Sciences Journal*, 10(1), pp. 24-30.
- Ruiz, B., Esteban, A., and Gutiérrez, S., 2014. Determinants of reputation of leading Spanish financial institutions among their customers in a context of economic crisis. *BRQ Business Research Quarterly*, 17(4), pp. 223-304. <u>https://doi.org/10.1016/j.brq.2014.04.002</u>
- Rundle-Thiele, S., and Russell-Bennett, R., 2001. A brand for all seasons? A discussion of brand loyalty approaches and their applicability for different markets. *Journal of Product & Brand Management*, 10(1), pp. 1-16. <u>https://doi.org/10.1108/10610420110382803</u>
- Siddiqi, K. O., 2010. Interrelations between service quality attributes, customer satisfaction and customer loyalty. *International Journal of Business and Management*, 6(3), pp. 12-36. https://doi.org/10.5539/ijbm.v6n3p12
- Sun, X., Chi, G., and Xu, H., 2013. Developing destination loyalty: The case of Hainan Island. *Annals of Tourism Research*, 43, pp. 547–577. <u>https://doi.org/10.1016/j.annals.2013.04.006</u>
- Supriyanto, A., Wiyono, B. B., and Burhanuddin, B., 2021. Educational effects of service quality and customer satisfaction on loyalty of bank customers. *Cogent Business & Management*, 8(1). <u>https://doi.org/10.1080/23311975.2021.1937847</u>
- Szwajca, D., 2018. Dilemmas of reputation risk management: Theoretical study. *Corporate Reputation Review*, 21(6). <u>https://doi.org/10.1057/s41299-018-0052-9</u>
- Tseng, L. M., 2019. How customer orientation leads to customer satisfaction: mediating mechanisms of service workers' etiquette and creativity. *International Journal of Bank Marketing*, 37(1), pp. 210-225. <u>https://doi.org/10.1108/IJBM-10-2017-0222</u>
- Walsh, G., Groth, M., and Wiedmann, K. P., 2005. An examination of consumers' motives to switch energy suppliers. *Journal of Marketing Management*, 21(3-4), pp. 421-440. <u>https://doi.org/10.1362/0267257053779091</u>

- Weaver, D. B., and Lawton, L. J., 2011. Visitor loyalty at a private South Carolina protected area. *Journal of Travel Research*, 50(3), pp. 335–346. https://doi.org/10.1177/0047287510362920
- Wirtz, J. and Lee, M. C., 2003. An examination of the quality and context-specific applicability of commonly used customer satisfaction measures. *Journal of Service Research*, 5(4), pp. 345-355. <u>https://doi.org/10.1177/1094670503005004006</u>
- Yi, Y., 1990. A critical review of consumer satisfaction. In: V. A. Zeithaml, ed. 1991. *Review of marketing*, *1990.* Chicago, IL: American Marketing Association. pp. 68-123.
- Zafar, M., Zafar, S., Asif, A., Hunjra, A. I., and Ahmad, H. M., 2012. Service quality, customer satisfaction and loyalty: An empirical analysis of banking sector in Pakistan. *Information Management and Business Review*, 4(3), pp. 159-167. https://doi.org/10.22610/imbr.v4i4.977
- Zameer, H., Wang, Y., Yasmeen, H., and Ahmed, W., 2019. Modeling the Role of service quality, customer satisfaction and customer loyalty in building service brand equity. *International Journal of Asian Business and Information Management* (IJABIM), 10(2), pp. 55-72. https://doi.org/10.4018/IJABIM.2019040103
- Zarei, E., Daneshkohan, A., Pouragha, B., Marzban, S. and Arab, M., 2015. An empirical study of the impact of service quality on patient satisfaction in private hospitals, Iran. *Global Journal of Health Science*, 7(1), pp. 1-9. <u>https://doi.org/10.5539/gjhs.v7n1p1</u>