

#### MEDIATING EFFECTS OF CUSTOMER PERCEIVED VALUE ON RELATIONSHIP AMONG SERVICE QUALITY, CUSTOMER EXPERIENCE AND CUSTOMER SATISFACTION OF E-BANKING SERVICES IN BANGLADESH



By

**MD ABDUL BASHIR** 

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Fulfilment of the Requirements for the Degree of Master of Science

June 2022

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### DEDICATION

With utmost gratitude, I would like to dedicate this effect to the souls of my late brother Abdul Mokim, to my dear Father, Mother my beloved spouse, Asma Naznin and to my lovely daughter Fatima Shehrin Bushra and my family's all members.



C

Abstract of thesis presented to the Senate of Universiti Putra Malaysia in fulfilment of the requirement for the degree of Master of Science

#### MEDIATING EFFECTS OF CUSTOMER PERCEIVED VALUE ON RELATIONSHIP AMONG SERVICE QUALITY, CUSTOMER EXPERIENCE AND CUSTOMER SATISFACTION OF E-BANKING SERVICES IN BANGLADESH

By

#### MD ABDUL BASHIR

June 2022

Chairman: Mass Hareeza Ali, PhDSchool: Business and Economics

The banking sector unquestionably plays a critical role in any country's economic development and social growth in terms of wealth generation, which positively affects Gross Domestic Product (GDP). Technological advances have made remote sales and administration of financial services and products possible for years. The banking structure and procedures have been modified and revised daily since its inception. It is acknowledged that the banking industry is the one that is primarily affected by the internet and developments in information communication technology (ICT). Traditional financial services providers and new entrants are exploring e-possibilities. E-banking makes accessing bank accounts online easy, quick, and safe. Information technology is cost-efficient, easy-to-maintain, fast, effective, and competitive. Previous research found that e-banking clients are more responsive to behavioural variables than internal considerations. Behavioural characteristics and e-banking technologies affect customers' online banking experiences and satisfaction. Thus, e-banking adoption directly affects customers' satisfaction with service delivery based on behavioural characteristics. This research examines how customers' perceived value affects e-banking service quality, customers' experience, and customers' satisfaction in Bangladesh. 323 E-Banking clients were surveyed using a standardised questionnaire and random selection. A five point "Likert-Type Scale" has been adopted to measure the direct and indirect effects including independent, dependent, and mediating variables. Five hypotheses were derived from the technology acceptance model (TAM's) assumptions. Descriptive Analysis, Zero Order Karl Pearson's correlation analysis and CB-SEM path analysis were utilised to derive a conclusion. The research found that service quality and customers' experience affect e-banking in Bangladesh. Perceived value mediates the links between service quality, customers' experience, and customer satisfaction. Theoretically, these research results support the assumptions of TAM. This research will help the banking authorities focus more on service quality to improve customer satisfaction by recommending methods to make e-banking smoother, more effective, and safer. This study is purely quantitative in nature; in future research should be qualitative or mixed to get more accurate scenario regarding this issue. Out of eight divisions, only four divisions have been considered in this study, thus it is suggested to add more divisions to generalize the findings.



C

Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi keperluan untuk ijazah Master Sains

#### KESAN PENGANTARAAN PERSEPSI NILAI PELANGGAN TERHADAP HUBUNGAN ANTARA KUALITI PERKHIDMATAN, PENGALAMAN PELANGGAN DAN KEPUASAN PELANGGAN BAGI PERKHIDMATAN E-PERBANKAN DI BANGLADESH

Oleh

#### MD ABDUL BASHIR

Jun 2022

Pengerusi : Mass Hareeza Ali, PhD Sekolah : Perniagaan dan Ekonomi

Sektor perbankan tidak dapat dinafikan telah memainkan peranan penting dalam pembangunan ekonomi dan perkembangan sosial di mana-mana negara dari segi penjanaan kekayaan yang memberi kesan positif kepada Keluaran Dalam Negara Kasar (KDNK). Kemajuan teknologi telah membolehkan penjualan jauh dan pentadbiran perkhidmatan kewangan dan produk mungkin selama bertahun-tahun. Struktur dan prosedur perbankan telah diubah suai dan disemak setiap hari sejak penubuhannya. Memang diakui bahawa industri perbankan adalah yang paling dipengaruhi oleh internet dan perkembangan Teknologi Maklumat dan Komunikasi (ICT). Penyedia perkhidmatan kewangan tradisional dan pendatang baharu sedang meneroka e-kemungkinan.

Kemajuan teknologi telah membolehkan penjualan jauh dan pentadbiran perkhidmatan kewangan dan produk mungkin selama bertahun-tahun. Penyedia perkhidmatan kewangan tradisional dan pendatang baharu sedang meneroka e-kemungkinan. E-perbankan perbankan menjadikan akses akaun bank dalam talian mudah, cepat dan selamat. Teknologi maklumat adalah kos cekap, mudah diselenggara, cepat, berkesan dan berdaya saing. Kajian lepas mendapati bahawa pelanggan e-perbankan adalah lebih responsif kepada pembolehubah tingkah laku berbanding pertimbangan dalaman. Ciriciri tingkah laku dan teknologi e-perbankan mempengaruhi pengalaman dan kepuasan perbankan dalam talian pengguna. Oleh itu, penggunaan e-perbankan secara langsung mempengaruhi kepuasan pengguna terhadap khidmat penghantaran berdasarkan ciri-ciri tingkah laku. Kajian ini mengkaji bagaimana persepsi nilai pelanggan mempengaruhi kualiti perkhidmatan e-perbankan, pengalaman pelanggan dan kepuasan pelanggan di Bangladesh. 323 pelanggan E-perbankan telah ditinjau dengan menggunakan soal selidik piawai dan pemilihan rawak. Faktor bebas, bersandar dan pengantara "Skala Jenis-Likert" lima mata telah diterima pakai untuk mengukur kesan langsung dan tidak

langsung termasuk pembolehubah bebas, bersandar dan pengantara Lima hipotesis telah diperolehi daripada andaian model penerimaan teknologi (TAM). Analisis Deskriptif, Analisis Korelasi Zero Order Karl Pearson dan analisis laluan CB-SEM telah digunakan untuk mendapatkan kesimpulan. Kajian mendapati kualiti perkhidmatan dan pengalaman pelanggan mempengaruhi e-perbankan di Bangladesh. Persepsi nilai pengantara hubungan antara kualiti perkhidmatan, pengalaman pelanggan dan kepuasan pelanggan. Secara teorinya, hasil kajian ini adalah benar. Kajian ini akan membantu pihak berkuasa perbankan lebih fokus kepada kualiti perkhidmatan untuk meningkatkan kepuasan pelanggan dengan mengesyorkan kaedah untuk menjadikan e-perbankan lebih lancar, lebih berkesan dan selamat. Kajian ini adalah secara semulajadi semata-mata bersifat kuantitatif; dalam kajian masa depan sepatutnya bersifat kualitatif atau campuran untuk mendapatkan senario yang lebih tepat berkenaan isu ini. Daripada lapan bahagian, hanya empat bahagian telah dipertimbangkan dalam kajian ini, justeru dicadangkan untuk menambah lebih banyak bahagian untuk membat generalisasi hasil.

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This thesis was submitted to the Senate of the Universiti Putra Malaysia and has been accepted as fulfilment of the requirement for the degree of Master of Science. The members of the Supervisory Committee were as follows:

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#### **Declaration by Members of Supervisory Committee**

This is to confirm that:

- the research conducted and the writing of this thesis was under our supervision;
- supervision responsibilities as stated in the Universiti Putra Malaysia (Graduate Studies) Rules 2003 (Revision 2012-2013) are adhered to.

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# LIST OF ABBREVIATIONS

GDP	Gross domestic product
ICT	Information Communication Technology
E-banking	Electronic Banking
SCBs	States-owned commercial banks
DFIs	States-owned development financial institutions
PCBs	Private Commercial Banks
FCBs	Foreign Commercial Banks
IT	Information Technology
JICA	Japan International Cooperation Agency
E-Trade	Electronic Trade
E-Commerce	Electronic Commerce
BB	Bangladesh Bank
US	United States
UK	United Kingdom
E-Features	Electronic Features
WOM	Word-of-mouth
HSBC	Hongkong and Shanghai Banking Corporation
PEOU	Perceived ease of use
PU	Perceived Usefulness
NHS	National Health Service
USA	United States of America
ТАМ	Technology Acceptance Model
TPB	Theory of Planned Behavior
TRA	Theory of Reasoned Action
DOI	Digital object identifier

	PLCC	Plastic leaded chip carrier
	CNG	Compressed natural gas
	CFA	Confirmatory factor analysis
	ML	Maximum likelihood
	AMOS	Asset Management Operating System
	GLS	Generalized least squares
	SPSS	Statistical Package for the Social Sciences
	SEM	Structural Equation Modeling
	EM	Expected Maximization
	CR	Construct Reliability
	AVE	Average variance extracted
	CB-SEM	Covariance-Based Structural Equation Modeling
	EQS	The EQS Software
	GSCA	Generalized Structured Component Analysis
	NEUSREL	The NEUSREL Software
	SEM-PLS	Structural Equation Modeling- Partial Least Squares
	PLS	Partial Least Squares
	RMC	Research Management Center
	COUNTIF	The COUNTIFS function
	PEU	Perceived ease of use
	ASSU	Assurance
	RES	Responsiveness
	CUST	Customer
(c)	SAT	Satisfaction
$\mathbf{O}$	PU	Perceived Usefulness
	CPV	Customer Perceived Value
	PS	Perceived Security

- OIC Quality Internet Connection
- PP Perceived Privacy
- VIF Variance Inflation Factors
- ATM Automated Teller Machine
- IV Independent Variable
- DV Dependent Variable
- CS Customer Satisfaction

# UPM



#### **CHAPTER 1**

#### **INTRODUCTION**

#### **1.1 Introduction**

This insingleroductory chapter provides a brief overview of the research and explores how service quality and customer experience affect customer satisfaction. It also includes a problem statement, priorities, research questions, and the study's scope and significance.Lastly the organization of this thesis provided.

#### 1.2 Background of the Study

The banking sector unquestionably plays a critical role in any country's economic development and social growth in terms of wealth generation, which positively affects Gross Domestic Product (GDP). It is regarded as a place of protection and safety as well as a facilitator of financial services. Unlike every other service industry, this sector, with the aid of science and technological innovation, interacts closely with the customers, who have become more critical than ever before. The global banking industry continues to play an essential role in the global economic situation. The banking structure and procedures have been modified and revised daily since its inception. The banking sector is regarded to be the one most impacted by the internet and advancements in information and communication technology (ICT) (Rudra et al., 2021). Due to this expansion, e-banking services now have a practical and adaptable payment mechanism (Ahmad et al, 2021).

This quick and modern banking system provides higher services, better pricing, and more excellent protection to customers from all walks of life. The baking industry is the most common and a sign of protection, despite some challenges and risks. Bangladesh does not lag behind in the race against time and the modern world. In the year 1971, the banking sector began its journey with a new dream and a new assurance of equity, social honesty, and growth and development. This sector has now developed itself as a major contributor to the national economy. A variety of banks in different categories make up the market. State-owned commercial banks (SCBs), state-owned development financial institutions (DFIs), private commercial banks (PCBs), and international commercial banks, 2021 & 2020).

Bangladesh currently has 61 scheduled banks operating throughout the country. Six state-owned commercial banks (SCBs), three specialized banks (SDBS), forty three private commercial banks (PCBs), and nine foreign commercial banks (FCBs) make up the banking sector (Banglades Bank, 2022). Both traditional and modern banks work to maintain and enhance customer retention in addition to pursuing new business. The financial services sector's future growth, notably in the banking business, is now seen as being critically dependent on the exponential advancements in information technology

(Sina et al., 2021). Bangladesh has been making steady progress despite the fact that the banking industry is rapidly adopting technology in many other nations.

Nevertheless, in mid -the 1990s, with the emergence of the private banks in the country, the overall scenario started changing radically. The reason behind this change is the banks' evolving with a solid IT base. The most important aspect of a bank's marketing strategy is utilizing technology by creating channels where clients may manage their accounts and communicate with their bank (Begum et al., 2022; Hughes, 2003). Due to the technological development occurring for several years, helps financial services/products be operated and controlled by distant distribution stations. Traditional financial service providers and newcomers are both looking into the potential that isn't being used yet (Begum et al., 2022). E-Banking services, on the other hand, have been around since 2001 in Bangladesh (Khan et al., 2021; Rahman et al., 2017). Electronic Banking received incredible attention and significance from both the banking sector and its customers. In developed Asian countries like Hong Kong, Japan, Singapore, South Korea, and Taiwan, there has been a substantial increase of penetration of e-banking from 58 percent in 2011 to 92 percent in 2021.

Table 1	1.1	: E-	banl	king	User
---------	-----	------	------	------	------

Year	Internet Users (Million)	Internet Banking Users (Million)	Percentage of Internet Banking Users
2019	92.06	2.05	2.23
2020	99.98	2.61	2.61
2021	112.72	3.38	2.99

(Source: Business Standard, 2022)

1.3

Now, total internet users are 112.72 million and total e-banking customers is 3.38 million. Now, the percentage of internet banking users in Bangladesh is 2.99% (Business Standard, 2022). From the abobe Table1.1 E-banking is still in the initial stage in Bangladesh, despite extensive practice in advanced countries such as the US, UK, and European countries (Business Standard, 2022). However, very few of the users/clients take the services from the e-banking processes in Bangladesh due to different factors such as fearing personal account security, complications of online sites of banks, poor website response, etc (Khan et al., 2021. Therefore, the country's growth prospect to adopt the e-banking services makes the transaction smoother and easier for the clients for greater individual and collected economic transactional sustainability.

#### Statement of the research problem and research gap

The researchers look into the impact of Bangladesh's e-banking commercial banks on customer service, satisfaction, and profitability. Over the year, many studies have been performed – both in the past and in the present. Not only have that but significant hypotheses and models been established to assess the effect and satisfaction of E-banking. This is because customers are thought to be the lifeblood of every industry especially banking industry. To make banking easier for clients and employees, an online embedded platform was created using cutting-edge technology and the Internet of

Things. E-banking allows consumers to safely and easily access their bank accounts. Information technology has been an advantage in terms of cost-efficiency, flexible maintenance, promptness, efficacy, and dramatically increased productivity. Customers can securely and instantly access and monitor their finances in an online environment, regardless of their location or time. Furthermore, Internet banking allows users to verify their current balance from a remote location through the internet. E-banking enables customers to manage their accounts from anywhere and at any time, regardless of whether it is a holiday, evening, or night. In e-banking, the customer's opinion is critical in determining the quality of the services offered. Certain consumers value the quality and responsiveness of service providers above all else, while others value privacy and protection above all else. Some customers also value the website's design and ease of use, demonstrating that different customers have different needs and expectations from e-banking service providers. Nevertheless, some common circumstances can be found in the customer's intentions, which are legitimate expectations that ensure the study's interest. Furthermore, prior research demonstrated that, when it comes to providing customer support via e-banking, clients were particularly sensitive to behavioral aspects in comparison to internal characteristics (Khan et al., 2021). As a result, there appears to be a clear link between behavioral and e-banking technologies in terms of consumer engagement and satisfaction with e-banking. As a result, the extent of e-banking adoption would directly impact how satidfied consumers are with service delivery in terms of behavioral factors (Khan et al., 2021).

In the context of E-banking services, previous research has revealed (dis)advantages related to client attitudes and documented reasons why customers detest utilizing Ebanking services. Most of the research on why people use digital banking services (Khan et al., 2021; Patel & Patel, 2018) and how to keep them happy is about E-banking services (Ghali, 2021). A multitude of factors or constraints could be to blame for the limited adoption of electronic banking services. Because of network issues with local phone services, a lack of trust in the security of the service (Islam, 2019), a lack of reading skills and awareness (Rahman et al., 2017), the mentality associated with traditional banking services, and other factors, some customers choose not to use ebanking services (Farhi & Tirole, 2021 and Kavitha, 2015). Financial inclusion, trustworthiness, technology use and culture, gender inequality, and religion were all explored in the previous study on the acceptability of mobile banking (Raza et al., 2019). Most previous research has focused on technological adoption models and behavioural theories. Customers' complaints and misgivings, on the other hand, have largely gone ignored in the literature. Furthermore, the lack of complete client safety, security, and quick access to electronic banking is becoming a growing source of worry (Raji et al., 2021; Hossain et al., 2021). The primary cause was a lack of proper IT infrastructure and security mechanisms on the part of banks (Chaimaa et al., 2021; Hossain, 2021; Naeem & Ozuem, 2021). Finally, there are issues with service quality, customer experience, perceived value, safety, and security. The majority of Bangladesh's ebanking issues stem from a lack of infrastructure. However, in order to findout the research gap, the recent works in relation to E-banking in Bangladesh has been shown in a Table.

4 41	Vari	Gaps	
Authors	IV DV		
Li et al., 2021	Service quality, web design and content, security and privacy, convenience and speed	Customer satisfaction	Indirect effect
Alam et al., 2021	Review paper		Direct and Indirect effect
Hossain et al., 2021	E-banking services	Financial performance	Indirect effect
Karim et al., 2019	Conceptual paper	Conceptual paper	Direct and Indirect effect
Munir & Bishwas, 2021 Munir & Rahman, 2015	Security and loyalty	E-Banking Practices	Indirect effect (mediating and moderating variable)

#### Table 1.2 : Research gap of E-banking in Bangladesh

To the best of the researcher's knowledge, there is no well-estbilishe study in Bangladesh that deals with the customer experience and satisfaction with e-banking. As a result, this study aims to close the research gap by achieving the study's goals. The majority of the research conducted on the conventional banking system in Bangladesh is definitively based on the reviewing literature. After a critical evaluation of this Table 1.2, it was found that all authors have focused on only direct effects of E-banking services on outcome variables, but in Bangladesh, no researcher has emphasised on finding out the indirect effect. Thus, this study attempts to find out the indirect effects using mediating. Besides, it has been identified that none of the researchers used an important term "Customer Experience" as a separate independent variable in their models. This study aims to fill that gap by determining the relationship between customer experience and customer satisfaction in Bangladesh's e-banking market. As a result, in this study, we built a theoretical model to investigate Bangladesh's e-banking system and determine the relationship between customer experience the relationship between customer satisfaction.

#### 1.4 Research objectives

The fundamental objective of this study is to test the mediating effect of customer perceived value on the relationship among service quality, customer experience and customer satisfaction of e-banking services in Bangladesh. In order to do that the researcher has set the following specific objectives.

- 1. To investigate the effects of service quality on customers' satisfactions of ebanking service delivery in Bangladesh.
- 2. To evaluate the effects of customer experience on customers' satisfactions of e-banking service delivery in Bangladesh.
- 3. To evaluate the effects of customer perceived value on customers' satisfactions of e- banking service delivery in Bangladesh.

- 4. To measure the mediating effects of customers' perceived value on the relationship between service quality and customers' satisfaction of e- banking service delivery in Bangladesh.
- 5. To measure the mediating effects of customers' perceived value on the relationship between customer experience and customers' satisfaction of e-banking service delivery in Bangladesh.

#### 1.5 Research questions

- 1. To what extent service quality influence the customer satisfaction of e- banking service delivery in Bangladesh?
- 2. To what extent customer experiences influence the customer satisfaction of ebanking service delivery in Bangladesh?
- 3. To what extent customer perceived value effect the customer satisfaction of ebanking service delivery in Bangladesh?
- 4. To what extent perceived value mediate the relationship between service quality and customer satisfaction of e- banking service delivery in Bangladesh?
- 5. To what extent perceived value mediate the relationship between customer experience and customer satisfaction of e- banking service delivery in Bangladesh?

#### 1.6 Research Scope

The current study, however, was designed with a quantitative research with five hypotheses based on TAM model. Dhaka, Rajshahi, Chittagong and Sylhet divisions from Bangladesh are taken as the study's location. Seveice quality, customer experience are taken as independent variables, customer perceived value is considered as mediating variable while customer satisfaction is taken as dependent variable. The customers who use the E-banking services are taken as the respondents for this study.

#### **1.7** Research Contributions

Several contributions would be made if the five research objectives identified in this study (mentioned in section 1.4) were met. Using a variety of approaches, the present research adds to the literature on service quality and customer experience. In terms of these measurements, previous research has solely concentrated on service quality and customer experience assessment. The importance of the customer experience had been overlooked. As a result, this study proposed a new perspective that looked at service quality and customer experience simultaneously. A tried and true model will be presented, detailing the dimensions and structures of e-banking customer satisfaction in Bangladesh. In reality, such a result is important because the dimensional framework of customer satisfaction has not been compromised. Furthermore, the current study models the relationships between different constructs such as service quality, customer

experience, customers' perceived value, and customer loyalty all at the same time. The vast majority of customer satisfaction surveys were conducted in all Bangladeshi banks. The findings will lead to a new interpretation of the contributions mentioned above. From a practical standpoint, this research benefits the banking industry in a number of ways. To begin, this study aids Bangladeshi banks in formulating policy and making decisions on the dimension of service quality and the customer experience in relation to E-banking and its effect on customer satisfaction. Second, this research demonstrates various e-banking products, easier handling of e-features, and e-security based on modern communication technologies, all of which improve customer service delivery and satisfaction. For e-banking customers, clarity of the dimensions of service quality and the customer experience in all banks is important. By gaining a better understanding of both topics, bank employees would be able to develop more effective strategies for retaining existing e-banking customers and attracting new e-banking customers. This analysis can be researched as a set of scientific questions, and all of the variables in it can be measured and calculated using scientific procedures. Furthermore, this analysis is feasible since it could be conducted in a reasonable manner, subjects could be assigned, and theoretical structure constructs could be calculated. As a result, the findings of this study will assist bank policymakers in formulating and implementing a strategy for all banks to deal with Bangladesh's intense rivalry in the banking industry.

#### 1.8 Definition of Terms

#### **Customer satisfaction**

Customer satisfaction is a psychological concept that involves the sensation of wellbeing and delights those consequences from acquiring what one hopes for and expects from an attractive product and/or service. Customer satisfaction leads to growth in customer loyalty who is receiving the service from the company,( Jahan & Shahria, 2021).

#### **Customer perceived value**

Customer perceived value is defined as a judgment or a valuation by the customer of the contrast between the benefits or utility acquired from a product, service or relationship, and the perceived sacrifices or costs, (Paul et al., 2022).

#### Service quality

The service quality can also be expressed from the perspective of physical quality, interactive quality and corporate quality. In this study, under the service quality, there were five reliability, responsiveness, assurance, empathy, and tangibles (Ademola, & Kazeem, 2022).

#### **Customer experience**

Customer experience is the measurement of interaction between service provider and a customer for a long period of time. In this study, under the service quality, there were five Perceived ease of use, Quality Internet Connection, Perceived Privacy, Perceived Usefulness, Perceived Security, (Mosa, 2022).

#### **E-banking**

Electronic banking includes several transaction services like banking through telephone, credit & debit cards usage, Automated Teller Machines (ATMs). It also engaged in activity like electronic funds transfer (EFT) which is simply transfer funds directly from one account to another. However, E- banking refers as a banking system where all the transactions are done by the internet, (Carranza et al., 2021).

#### **1.9 Organization of the thesis**

This thesis is organized into five chapters.

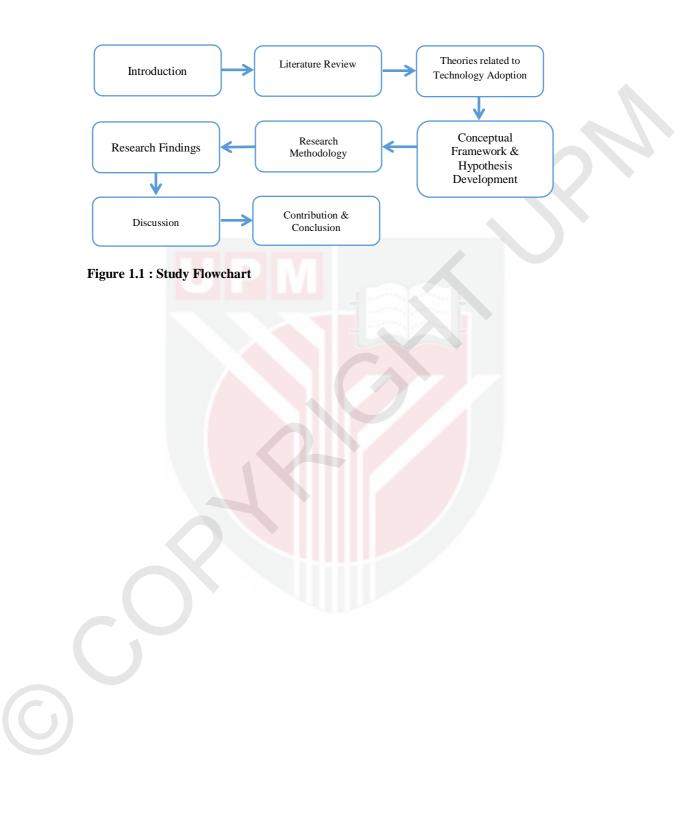
In this first chapter, an overview of the study is given here. At the beginning, this chapter discusses the background of the study followed by problems faced by the security and safety. Then, the research questions highlight the potential issues of the study. The objective and scope of the study are also discussed in this chapter and finally the organization of the thesis will be presented to make the research process clearer.

This second chapter presents the review of previous studies related to relationship quality. It covers the topics related to relationship quality such as, service quality and customers' satisfaction, customers' experience and customers' satisfaction and service quality and customers' perceived value. At the end of this chapter, further discussion on the selected dimension of relationship and hypothesis development is shown.

The third chapter focuses on the methodology used for data collection. This chapter covers research instruments, sampling design, questionnaire design, data collection methods and analyses used to test the study variables.

The fourth chapter explains the findings and result of collected data. This chapter also discussion on the result and relates to the objective of the study.

The fifth chapter discusses the summary of the research, conclusion, and the implication of the research and limitations of study. The purpose of the study is to examine the relationship between service quality and customer experience with customer satisfaction. In addition, the roles of customer perceived value as mediators. Chapter five also comprises the contribution of the study and how the research gap is being filled by the current research.



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