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THE RELATIONSHIP BETWEEN ONLINE CONVENIENCE, ONLINE CUSTOMER SATISFACTION, BUYING INTENTION AND ELECTRONIC WORD-OF-MOUTH

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ABSTRACT

The purpose of this research aims to explore, measure, and analyze the relationship between online convenience, online customer satisfaction, buying intention, and electronic word-of-mouth (E-WOM) of the customers via the Exploratory Factor Analysis (EFA) and three model regression. To conduct the research, the author distributed 300 surveyed questionnaires, and the author collected 285 valid respondents. The results showed that online convenience, which has seven dimensions about convenience, includes access, search, evaluation, attentiveness, transaction, possession, post-possession convenience affect online customer satisfaction. Furthermore, as a result, online customer satisfaction influences online buying intention and electronic word-of-mouth. Based on that, the research recommends the necessary solutions to improve the buying intention and encourage customers to do E-WOM. Besides, this research opens a new field for further research in Vietnam.

Keywords: Online convenience; Online customer satisfaction; buying intention; electronic word-of-mouth; convenience dimension





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1. INTRODUCTION

The development of the Internet that has completely changed the lives of people and

the business form small, medium, and large enterprises over the world; besides, the e-

commerce industry was born as the indispensable. The e-commerce industry covers a wide

range of socio-economic activities and brings significant benefits. Thanks to e-commerce,

human life becomes more comfortable, and people can save time and money because of the

flexibility, simplicity, and excellent applications of e-commerce.

Consumers quickly access and read the sharing of ideas and feelings of other individuals

to compare and select the most of their benefits. Consumers can submit comments, ratings, and

product reviews on websites, blogs, forums, social networking sites (Facebook, Twitter,

Youtube,...). It has led to the creation of a diverse online word of mouth community that has a

tremendous impact on businesses, retailers, and wholesalers.

E-commerce is a modern tool to help businesses penetrate the market better, collect

market information quickly and timely; also, e-commerce helps trade activities take place faster

with many utilities. Enterprises can also provide information about products and services to

potential customers anytime, anywhere, when the customers use the Internet. It can be seen

that e-commerce is overgrowing in many Asian countries, including Vietnam, it is considered

to be born along with the mandatory development of the digital economy and information

society.

Moreover, the expansion of shopping in many new industries in the online environment

is prospective, and it tends to use e-commerce more in the future. So it is also easy to satisfy

customers. For customers who spend money to use the services, they always consider which is

the best for them. Customer satisfaction is a big question that the business needs to focus on,

so the sellers and e-commerce site owners must identify the crucial factors that affecting

customer satisfaction.

Currently, Ho Chi Minh City is the most dynamic city in Vietnam, and it has a high

income, a high standard of living, and a high population density. It is required for e-commerce

sites to provide products with good service quality, such as online convenience when shopping

to be able to attract customers to shop online at their website. It makes a difference and an

advantage over competitors.

When the customers feel satisfied by the online convenience, it will affect the online

purchasing intention and encourage electronic word-of-mouth (E-WOM) of the customers

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spreadly. Understanding the essentials and practicality of the above problem, the author

conducted the research "The relationship between online convenience, online customer

satisfaction, buying intention and electronic word-of-mouth."

2. LITERATURE REVIEW

2.1. Online convenience

Today, online users can easily access to convenient services and products through the

Internet, so they can do online shopping that meets their needs quickly and easily. The online

shopping has unique advantages. Notably, customers can easily access product information

from various sources. The online form provides a wide variety of products and services,

especially clothing, electronics, toys, and cosmetics. Most of the e-commerce sites allow

customers to rate and review products after purchase, so the other customers can see the rate

and review and decide to buy products or services.

Researchers indicated that online shopping brings many benefits such as the

convenience of purchase, ease of product selection, ease of use as well as online shopping

process, or delight of customers when making online transactions. Buyers can receive the

benefit from e-commerce shopping such as the speed, shopping efficiency, lower costs, and

24-hour service and on-site support (LAW; HSU, 2006).

Meixian (2015) showed some of the previous views, and finally acknowledged three

significant benefits associated with online shopping behavior: (1) Price benefits; (2) available

benefits; and (3) recreational benefits. Besides, Tsai and Wu. (2011) recognize that the

perceived of usefulness, the ability to personalize and customize the product benefits through

online group shopping gives many benefits for customer.

2.2. Electronic Word-Of-Mouth (E-WOM)

Electronic word-of-mouth is a positive or negative comment created by both old

customers, current customers, and potential customers about a product, a service, a brand, or a

business. Individuals, community groups, or organizations generate these comments via the

Internet (HENNIG-THURAU et al., 2004). Consumers feel that other consumers perceive the

source of information, and electronic word-of-mouth does not come from companies

(GOYETTE et al. 2010).

E-WOM is an interpersonal communication about online mechanisms. It is an exchange

of non-commercial and informal conversations using internet platforms (GOYETTE et al.,

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2010). E-WOM is a collective term that describes the delivery of information related to goods

or services exchanged from buyer to buyer through the web.

2.3. The effects of E-WOM

The origin of E-WOM from a consumer is often unknown, making it difficult to

determine the quality of information and the reliability of the information posted

(CHATTERJEE, 2001). E-WOM is scalable, and the transmission speed is high. The main

difference between E-WOM and traditional WOM is that the effect of traditional WOM is

usually limited to a local area. In contrast, the E-WOM impact can far exceed local

communities because consumers can access reviews anywhere in the world.

Most of the information on the Internet is presented or displayed in text form, and

therefore, the information will be stored for an indefinite period (PARK; LEE, 2009). E-WOM

can measure more easily than word-of-mouth (LEE et al., 2008; PARK; KIM, 2008). E-WOM

can be viewed and read by anyone, anytime, and anywhere if the user has access to the Internet

(CHEN; XIE, 2008). E-WOM is a useful and influential source for consumers when they need

information. (CHATTERJEE, 2001). Thus the effect of E-WOM on the receiver will be

affected by the factors of the communicator (sender of information), stimulus (message), and

characteristics of the recipient.

2.4. Behavior intention (buying intention)

Consumer behavior in the context of online shopping manifests in the actions of

continuing to buy, repurchases, evaluation, and feedback to the seller, introducing to others

when satisfied, and get the information by E-WOM. The behavior of consumers when buying

online is the same as that of traditional purchases; some of the main differences being the

shopping environment and marketing communications (CHAYAPA et al., 2011).

In the research of Azjen (1991), Azjen and Fishbein (1975) also mentioned influencing

factors including attitude, buying intent, personal factors, behavioral belief, subject norms,

Control beliefs, and perceived behavioral control. Jayendra and Kim (2012) proposed a

research model of six factors affecting consumers' intention to buy online: Awareness of ease

of use, perceived usefulness (from technology accept model, DAVIS 1989), financial risk

awareness, product risk awareness, convenience risk perception, after-sales policy.

According to Li and Zhang (2002), factors that influence online shopping behavior

include the external environment, demographics, personal characteristics. According to

Forsythe et al. (2006), online shopping has advantages such as shopping quickly, no need to



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visit the store, quickly find the product that the customer needs. Also, the customer can buy

products anywhere.

3. HYPOTHESES DEVELOPMENT

This research uses the seven dimensions (access convenience, search convenience,

evaluation convenience, attentiveness convenience, transaction convenience, possession

convenience, post-possession convenience) of online convenience of Duarte et al. (2018).

However, there is a difference between this research and the research of Duarte et al. (2018).

According to Duarte et al. (2018), seven dimensions affect online convenience, and online

convenience affects online customer satisfaction. The research of the author indicated that

seven dimensions directly affect online customer satisfaction.

Access convenience is measured by accessibility, and as a result, consumers have easy

access to retailers (BERRY et al., 2002). Convenient access is a profoundly crucial aspect of

local convenience, because if a consumer is unable to access the retailer, then the consumer

will never have a chance to get the products that they want.

Traditional retailers can improve access convenience by placing the store in an

accessible location that closes to most consumers (BERRY et al., 2002). In contrast, online

retailers can certainly provide convenient access when the store location becomes an

unimportant factor (ROHM; SWAMINATHAN, 2004), and consumers can shop online from

any location, at any time of day, even consumers can buy seven days a week.

The accessibility of websites is considered to be an essential factor for consumers to

realize the convenience of online shopping (KING; LIOU, 2004). Compared to traditional

shopping, online shopping reduces the time spent on transportation/effort to place, time/effort

for parking, and time/effort on parking foot to the store (BHATNAGAR et al., 2000).

Convenient access helps retailers get off to a good start with busy consumers (SEIDERS et al.,

2000). By the way, the author proposes the following hypothesis:

• H1: Access convenience has a positive effect on online customer satisfaction.

The Internet search allows retailers to improve their business relations and build

advertising strategies. Through this tool, consumers can view the product on their computer

screens and visualize how the products can fit their needs. Consumers can also participate in

online discussions with other consumers about the products and services they seek and compare

prices easily.

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These types of flexibility (navigation, selection, and product availability) provide psychological benefits by avoiding crowds, reducing waiting time, and spending less effort in going to physical stores (BEAUCHAMP; PONDER, 2010). It is why convenient search is vital

for retailers to improve their website. Convenience is an intuitive, easy-to-handle, and attractive

design tool to guide customers in decision making. By doing so, retailers are improving the

convenience of searching for speed and ease of use so that consumers identify and select the

products they want to buy online (BEAUCHAMP; PONDER, 2010).

Access convenience reduces the time and effort required to reach a retailer, while search convenience helps consumers through the shopping process by assisting them in making their decisions. Consumers often face a wide range of product classifications and less time to make decisions. Therefore, online search engines of retailers must be available to provide full written information about the product. Retailers are more efficient at enabling customers to search for products. The customer search process is faster and easier through shopping experience

(BERRY et al., 2002). Therefore, the author wants to propose the following hypothesis:

• H2: Search convenience has a positive effect on online customer satisfaction.

Evaluation convenience is related to the availability of product description details in an easy-to-understand manner by using various presentation features. For instance, text presentation types, graphics, and videos, on the company's website (JIANG et al., 2013). The categories for presenting this product allow consumers to familiarize themselves with the product and compare it with others.

At the same time, consumers make the purchase process faster. Besides, in recent years, diverse product categories and information details are easily accessible with just one click. Therefore, online shoppers are more sensitive than ever to assess convenience (JIANG et al., 2013). Accordingly, the author proposes the following hypothesis:

• H3: Evaluation convenience has a positive effect on online customer satisfaction.

Luedi (1997), Madu and Madu (2002) argued that the intense competition in the market of online retail websites directly exposing the product or service portfolio on the Web is not sufficient to ensure their existence. Attentiveness convenience refers to the extent to which online retailers provide personalized services to their customers (JUN et al., 2004).

Although a website is a personal platform of business that used to retain customers, a company needs to distinguish the products and services from competitors based on



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personalized services for customers (JUN et al., 2004). Online customers expect customized

attention, customizing their needs and areas for customer questions and discussion. Due to this

fact, many online retailers are providing decision support (i.e., recommendation or shopping

bots, human assistant) to better provide personalized services (BEAUCHAMP; PONDER,

2010). In this way, this study proposes the following hypothesis:

• H4: Attentiveness convenience has a positive effect on online customer satisfaction.

Convenience in transactions is defined as that consumers can make or modify their

transactions quickly and easily (BEAUCHAMP; PONDER, 2010). Customers can buy online

products with one-click payments, and easy return policies will get higher ranking for

convenient deals (SEIDERS et al., 2000) because waiting to pay is an undeniable negative

experience (BERRY et al., 2002).

At traditional stores, shoppers often spend time waiting for the queue to complete a

transaction, which can be suspicious for companies. It leads to a negative impact on overall

service evaluation (KUMAR; KASHYAP, 2018). One of the main benefits of online shopping

is that customers never have to queue (WOLFINBARGER; GILLY, 2001). Online shoppers

are in virtual check-out and payment where they can complete transactions themselves (DE

KERVILER et al., 2016).

The easily complete or modify orders are crucial. The transaction with inconvenience

may prevent a customer from buying a retailer's product in the near future (BERRY et al.,

2002). Concerns about privacy, the fear of insecure trading, the risk of losing money have been

argued as the most significant inhibitors for online shopping (JAVADI et al., 2012), and that is

why easy, safe, and convenient online payment method is essential for customers. From the

above arguments, the author wants to propose the following hypothesis:

• H5: Transaction convenience has a positive effect on online customer satisfaction.

Possession convenience is the speed and comfort that the customer can buy the needed

products. As a result, to make the possession convenient for customers, there is crucial when

the business determines the products in stock and delivers the products on time

(BEAUCHAMP; PONDER, 2010). According to Jiang et al. (2013), This aspect involves

consumers aware of the time and effort spent to own what they want.

Customers feel comfortable to shop online, while customers who shop directly at the

store have to bear the burden of carrying goods at physical stores. Therefore, for heavy-weight



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goods or lots of bulk items, customers prefer to buy online rather than traditional goods to avoid

dealing with physical efforts (JIANG et al., 2013). Online buyers must wait for their orders to

be processed and shipped to receive their goods.

The waiting time for order processing and delivery is a non-monetary cost associated

with online shopping (BEAUCHAMP et al., 2010). One of the primary motivations for

purchasing in stores is the ability to leave the store with the intended product (ALBA et al.

1997; ROHM; SWAMINATHAN, 2004). Therefore, the author proposes the following

hypothesis:

• H6: Possession convenience has a positive effect on online customer satisfaction.

The importance of post-possession convenience (convenience after purchase) has been

emphasized in recent years because of the difficulties consumers have encountered in returning

products purchased over the Internet (SEIDERS et al., 2002). Post-possession convenience

becomes essential after exchanging services and involves consumers realizing the time and

effort spent when re-communicating with a company after purchasing the intended product

(SEIDERS et al., 2002).

Factors determining convenience after owning a product (also known as post-

possession convenience) are records/reports for consumers who need repair, maintenance, or

exchange of products (BERRY et al., 2002). Sometimes consumers contact the seller because

of an unrecognized error in the initial purchase.

Other reasons for contacting the retailer also include transaction issues, customer

complaints, defective products or services, and customers changing their minds (SEIDERS et

al., 2007). Post-possession convenience efforts may also influence other factors, affecting

customer purchasing stages (SEIDERS et al., 2002). For example, a service error may affect

evaluation convenience if consumers are provided with unrealistic information. Access

convenience may be concerned if the online connection fails.

Transaction convenience will be undervalued if prices are inaccurate or price

manipulation leads to a delay in the buying behavior of consumers (SEIDERS et al., 2002). In

general, less time and effort is needed to deal effectively with a failed service; the higher the

perceived convenience in online transactions (SEIDERS et al., 2002). Therefore, the hypothesis

is as below:

• H7: Post-Possession convenience has a positive effect on online customer satisfaction.

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Following the model presented by Zeithaml et al. (1996), intentional behavior can be perceived by means such as intent to acquire, word-of-mouth, loyalty, complaining, sensitivity behavior, perceived price level. A high quality of service (as perceived by the customer) often

results in positive behavioral intent.

In contrast, the low quality of the service tends to result in negative behavioral intention. An experienced consumer of online shopping will have a significant influence on customers who intend to buy in the future for online shopping (JAYAWARDHENA et al., 2007). Therefore, research indicates that the more positive a customer experience is, the more likely

it is that customers are reusing store services.

This argument is similar to that of Zeithaml et al. (1996), they emphasize that the intention of behavior is related to a customer who decides to stay or leave a brand/company. From the comments discussed, it can be understood that convenience influences consumer satisfaction, and therefore online satisfaction influences purchasing behavior. Consequently,

the hypothesis is as follow:

• H8: Online customer satisfaction has a positive effect on online buying intention.

Traditional word-of-mouth (WOM) is a communication method described initially as a means of sharing ideas and opinions related to the products and services that people purchased (GRUEN, 2006). WOM has been shown in situations to be more effective than traditional marketing tools and some types of advertising (KATZ; LAZARFELD, 1955; ENGEL et al., 1969). However, word-of-mouth has evolved into a whole new form through modern technology. It is nominated as electronic word-of-mouth (E-WOM).

Hennig-Thurau et al., (2004) refer to E-WOM as any positive or negative statements made by potential customers, previous customers about a product or company. By word-of-mouth is provided to many people by the information of individuals or groups via the internet. The significant growth in online social networking has dramatically expanded the potential impact of electronic word-of-mouth (E-WOM) on consumer purchasing decisions. The digital platform is composed of blogs, vlogs, discussion forums, social networking sites, review of sale websites. Indeed, word-of-mouth has found a new way to assert its value in marketing products in new forms of electronic communication (GRUEN, 2006).

E-WOM is an online consumer review that includes analytics and comments created and posted by customers who have the experience of products. Four factors that affect the E-



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WOM adoption of the online customers are the trust of eWOM news source, the quantity of eWOM, the quality of eWOM, and consumer expertise (LE-HOANG, 2020).

Online shoppers always read reviews and experiences of other shoppers before they buy products online. Millions of people have access to an online review, and this is the power of E-WOM (PARK et al., 2011). In general, consumers find it necessary to know others' opinions before/while/after making purchasing decisions.

They talk and discuss their purchase intention with family members and friends on the Internet. The customer awareness of the influence of others such as family, co-workers or media (LE-HOANG et al., 2019). Customers who have a pleasant experience or are satisfied with a retailer are more likely to do positive reviews through E-WOM (DUARTE et al., 2018). As a result, the customers are most likely to be affected by make decisions because they interact and communicate with others. (PARK et al., 2011). The hypothesis is as below:

• H9: Online customer satisfaction has a positive effect on Electronic Word-Of-Mouth (E-WOM).

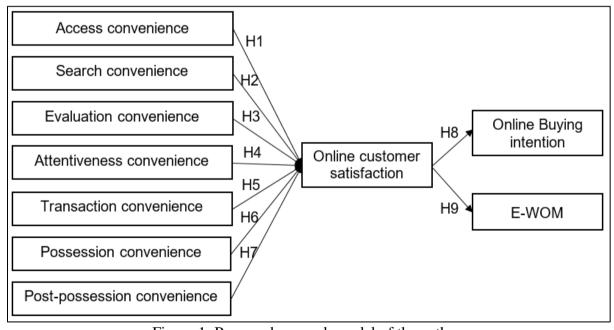


Figure 1: Proposed research model of the author

4. METHODOLOGY

This research uses the qualitative research method via group discussions and expert discussions to build research models, scales, questionnaires, and preliminary surveys to complete research models before issuing the questionnaire. The author surveyed the vice-chairman of the Vietnam E-Commerce Association (VECOM), chairman of the Vietnam Marketing Association (VMA), surveyed three members of the Executive Committee of



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VECOM and three members of the Executive Committee of VMA to complete the group

discussion.

Quantitative research method based on information collected from the online customers

who live in Ho Chi Minh City. Likert scale with five levels, namely strongly disagree, disagree,

neutral, agree, and strongly agree, is used to measure the impact of factors affecting online

customer satisfaction, and this research uses the convenient sampling method. Hair et al. (2014)

pointed out that when the study uses the Likert scale five levels with the n variables, the study

should ensure a minimum sample size of 5*n=5n. To ensure the quality of the sample, the

author decided to get from 250-300 questionnaires.

In quantitative research, the author assessed for reliability through Cronbach's Alpha

coefficients, EFA method, and three regression models to find the relationship between seven

convenience dimensions, online customer satisfaction, buying intention, and electronic word-

of-mouth.

The author conducts an online survey on December 2019 by sending survey

questionnaires to relatives, friends, and colleagues via applications such as Messenger, Zalo,

Email, Facebook for people to do online surveys about the relationship between online

convenience, online customer satisfaction, intention to buy, and electronic word-of-mouth (E-

WOM).

The author sends the survey link through the four applications mentioned above. When

the author collected all 300 responses, the author closed the survey link and did not conduct

the survey. Fifteen respondents were not valid for a variety of reasons. Six respondents

answered incompletely; while, four respondents answer all of the questions with strongly

disagree. Five responses are not valid in science.

The reason is that the component scales are around 2-3 values (Likert level), and the

total scales are 5. Finally, the author obtained the online survey results with 285 respondents

with valid answers and used for conducting Cronbach Alpha, EFA, and regression.

5. ANALYSIS AND RESULTS

5.1. Reliability test: Cronbach's Alpha

According to Nunnally and Bernstein (1994), the condition to accepting variables is

that Corrected Item - Total Correlation is equal or greater than 0.3 and Cronbach's Alpha if

item deleted is equal or greater than 0.7. According to Hair et al. (2014), new studies can accept

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that Cronbach's Alpha if item deleted is equal or greater than 0.6. Therefore, the remaining items satisfy the condition (see the table 1 below), so this can be used for analyzing Exploratory Factor.

Table 1: Constructs, corrected item – total correlation and Cronbach Alpha

	Corrected	Cronbach's
Constructs		Alpha if item
Constitution		deleted
Access convenience - Cronbach's Alpha		4010004
		0.835
		0.872
*		0.814
		0.011
		0.810
	01,11	0.010
	0.645	0.837
		0.809
		0.805
	0.722	0.005
	ha = 0.826	
		0.739
		0.755
	0.075	0.755
	0.658	0.784
	0.020	0.701
	nha = 0.811	
	•	0.734
		0.786
	0.021	0.700
	0.706	0.694
*	oha = 0.853	
	0.701	0.809
	0.689	0.814
	0.703	0.810
the website		
I feel safe to provide my personal and private data	0.684	0.817
	ha = 0.831	
		0.761
		0.805
·		0.794
		0.785
The website is interested in exchanging and returning	0.725	0.756
products to retailers		
The website pays attention to the timely return and	0.663	0.816
	0.723	0.758
that I encounter		
Online customer satisfaction - Cronbach's A	Alpha = 0.823	
Shopping online is an enjoyable experience	0.689	0.744
I am satisfied with my previous online shopping	0.731	0.702
experience		
	0.616	0.017
I am delighted when doing the transaction on the website	0.616	0.817
I am delighted when doing the transaction on the website Buying intention - Cronbach's Alpha:		0.817
	The website operates 24/24, so I can shop whenever I want I can order products wherever I connected the internet The website is always accessible Search convenience - Cronbach's Alpha I can quickly go to the links within site to find the information I am looking for I can find what I want without having to look elsewhere The website provides useful information It's easy to get the information I need to make my purchase decisions Evaluation convenience - Cronbach's Alp The website provides detailed product specifications The website uses a combination of content and images in the product information The website provides enough information to identify the various products Attentiveness convenience - Cronbach's Alp The website has given me personal attention The website has given me personal attention The website has a messaging area for questions and comments of the customer I have received a personal thank you message via email or other media after I placed an order from the Website Transaction convenience - Cronbach's Alp The payment process is fast My purchase was completed easily It does not take long to complete the purchase process at the website I feel safe to provide my personal and private data Possession convenience - Cronbach's Alp I got exactly what I wanted My order was delivered on time Products are not damaged on delivery I got all the items that I ordered Post-Possession convenience - Cronbach's Alp The website is interested in exchanging and returning products to retailers The website is interested in exchanging and returning products to retailers The website pays attention to the timely return and exchange of products The retailer quickly resolves any post-purchase problems that I encounter Online customer satisfaction - Cronbach's Alp Shopping online is an enjoyable experience I am satisfied with my previous online shopping	Access convenience - Cronbach's Alpha = 0.889 The website operates 24/24, so I can shop whenever I want 0.790 I can order products wherever I connected the internet 0.746 The website is always accessible 0.841 Search convenience - Cronbach's Alpha = 0.855 I can quickly go to the links within site to find the information I am looking for I can find what I want without having to look elsewhere 0.645 The website provides useful information 0.712 It's easy to get the information I need to make my purchase decisions Evaluation convenience - Cronbach's Alpha = 0.826 The website provides detailed product specifications 0.707 The website provides detailed product specifications 0.693 the product information The website provides enough information to identify the various products Attentiveness convenience - Cronbach's Alpha = 0.811 The website has given me personal attention 0.678 The website has a messaging area for questions and 0.621 comments of the customer I have received a personal thank you message via email or 0.706 other media after I placed an order from the Website Transaction convenience - Cronbach's Alpha = 0.853 The payment process is fast 0.701 My purchase was completed easily 1.689 It does not take long to complete the purchase process at 0.703 the website I feel safe to provide my personal and private data 0.684 Possession convenience - Cronbach's Alpha = 0.831 I got exactly what I wanted 0.715 My order was delivered on time 0.617 Products are not damaged on delivery 0.642 I got all the items that I ordered 0.662 Post-Possession convenience - Cronbach's Alpha = 0.840 The website is interested in exchanging and returning 0.725 products to retailers The website pays attention to the timely return and exchange of products The retailer quickly resolves any post-purchase problems 0.723 that I encounter Online customer satisfaction - Cronbach's Alpha = 0.823 Shopping online is an enjoyable experience 0.689 I am satisfied with my previous online shopping 0.731



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BI2	I encourage others to shop online at this website	0.686	0.646
BI3	I will use this website more often to make online purchases	0.603	0.737
	Electronic Word-Of-Mouth - Cronbach's A	lpha = 0.808	
EW1	I always share my knowledge and information on online sales websites	0.629	0.767
EW2	I always read online consumer reviews when I do online shopping	0.689	0.706
EW3	I recommend people to buy products online from the website where I usually buy them	0.654	0.739

5.2. Exploratory Factor Analysis (EFA)

Exploratory Factor Analysis (EFA) is an analytical technique which is aimed to reduce data, so it is beneficial for identifying variables by group. In the exploratory factor analysis, the author used Principal Component Analysis and Varimax rotation to group the components.

5.2.1. Independent variables

The results show that KMO is 0.786 and can make sure the requirement 0.5<KMO<1. Bartlett is 3844.04 with sig = 0.00 (very small), so all of the variables are correlated together in each component. Total variance explained equals 74.713%, and it is greater than 50%; as a result, it can meet the requirement of variance explained. From this one, this research can conclude that variables can explain 74.713% in changing factors. Also, eigenvalue value equals 1.369 >1, and it is the fluctuation that can explain for each factor, so the extracted factors have a significant summarize in the best way. The rotated matrix in EFA show that the loading factor is higher than 0.55, and it can divide into seven components by the following table:

Table 2: Rotated matrix

	Ŧ.		Component					
Concepts	Items	1	2	3	4	5	6	7
	TC1	0.841						
Transaction	TC3	0.797						
convenience	TC2	0.761						
	TC4	0.750						
	SC1		0.837					
Search	SC2		0.799					
convenience	SC4		0.795					
	SC3		0.787					
	PC1			0.876				
Possession	PC4			0.785				
convenience	PC3			0.782				
	PC2			0.770				
Access	AC3				0.875			
convenience	AC2				0.873			
Convenience	AC1				0.846			
Post-Possession	PPC1					0.882		
convenience	PPC3					0.876		
Convenience	PPP2					0.778		
Evaluation	EC2						0.825	
convenience	EC1						0.798	
Convenience	EC3						0.775	

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Attentiveness	ATC1							0.848
	ATC3							0.790
convenience	ATC2							0.759
KMO		0.786 (sig.=0.000)						
Bartlett's					384	4.04		
Eigenvalues		6.034	3.170	2.313	1.973	1.671	1.401	1.369
Total Variance Explained		25.142	38.350	47.986	56.208	63.172	69.010	74.713

5.2.2. Dependent variable:

The results show that KMO of OCS, BI, and EW is respectively 0.701, 0.689, 0.710, and can make sure the requirement 0.5

KMO<1. Bartlett of OCS, BI, and EW are respectively 321.42, 253.20, 283.73 with sig = 0.00 (very small and so sig<0.05), all of the variables are correlation together in each component. Total variance explained of OCS, BI, and EW respectively equals 73.97%, 70.18%, 72.43%, and it is greater than 50%; as a result, it can meet the requirement of variance explained. Besides, eigenvalues of OCS, BI, and EW respectively equal 2.219, 2.105, 2.173, and they are higher than 1. It is the fluctuation that can explain each factor, so the extracted factors have a significant summarize in the best way. Finally, all of the variables have a loading factor that is greater than 0.55 and meet the requirement.

Table 3: Dependent variable, and testing

Criteria	Online customer		Buying intention		Electronic Word-Of-		
	satisfaction				Mouth		
	OCS1	0.869	BI1	0.816	EW1	0.833	
	OCS2	0.891	BI2	0.874	EW2	0.870	
	OCS3	0.819	BI4	0.823	EW3	0.850	
KMO	0.701 (sig=0.000)		0.689 (sig=0.000)		0.710 (sig=0.000)		
Bartlett's	321.42		253.20		283.73		
Eigenvalues	2.219		2.105		2.173		
Total Variance Explained	73.97 %		70.18 %		72.43 %		
Cronbach's Alpha	0.823		0.787		0.808		

5.3. Three regression model

From the EFA results, the author does compute the mean value of online customer satisfaction, buying intention, E-WOM, and seven dimensions of online convenience (access convenience, search convenience, evaluation convenience, attentiveness convenience, transaction convenience, possession convenience, post-possession convenience. Whereas:

AC: Access convenience (AC1, AC2, AC3)

SC: Search convenience (SC1, SC2, SC3, SC4)

EC: Evaluation convenience (EC1, EC2, EC3)

ATC: Attentiveness convenience (ATC1, ATC2, ATC3)

TC: Transaction convenience (TC1, TC2, TC3, TC4)



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PC: Possession convenience (PC1, PC2, PC3, PC4)

PPC: Post-possession convenience (PPC1, PPC2, PPC3)

OCS: Online customer satisfaction (OCS1, OCS2, OCS3)

BI: Buying intention (BI1, BI2, BI3)

OW: Electronic word-of-mouth (OW1, OW2, OW3)

The following formula can describe the regression model 1 in this research:

$$OCS = \beta 01 + \beta 1*TC + \beta 2*SC + \beta 3*PC + \beta 4*AC + \beta 5*PPC + \beta 6*EC + \beta 7*ATC$$

Then, the author computes the predicted value of OCS (OCSP) and the predicted value of OCS equals the actual value of OCS minus the error term.

So the regression model 2 is:

$$BI = \beta 02 + \beta 8*OCSP$$

Furthermore, the regression model 3 is:

$$EW = \beta 03 + \beta 9*OCSP$$

Table 4: Regression results (three model)

		Unstandardized Coefficients		Standardized Coefficients			Collinear	rity	
M	odel	Beta	Sd. Error	Beta	t	Sig.	Tolerance	VIF	
1	(Constant)	-0.553	0.232		-2.38	0.018			
	TC	0.102	0.035	0.126	2.89	0.004	0.700	1.43	
	SC	0.242	0.036	0.268	6.66	0.000	0.805	1.24	
	PC	0.101	0.034	0.111	2.95	0.003	0.911	1.10	
	AC	0.273	0.031	0.359	8.91	0.000	0.800	1.25	
	PPC	0.095	0.037	0.099	2.59	0.010	0.892	1.12	
	EC	0.204	0.049	0.179	4.15	0.000	0.705	1.42	
	ATC	0.148	0.037	0.171	4.03	0.000	0.726	1.38	
	ependent variable =0.639, Adjuste			action (OCS)					
2	(Constant)	0.194	0.200		0.97	0.334			
	OCSP	0.594	0.049	0.757	19.48	0.000	1.00	1.00	
	Dependent variable: Buying intention (BI) R ² =0.573, Adjusted R ² =0.571, Sig.=0.000								
3	(Constant)	0.335	0.239		1.40	0.162			
	OCSP	0.901	0.059	0.672	15.26	0.000	1.00	1.00	
	Dependent variable: Electronic Word-Of-Mouth (E-WOM) R ² =0.451, Adjusted R ² =0.450, Sig.=0.000								

From the results of the regression model 1 show that the sig of all seven dimensions of convenience such as access convenience, search convenience, evaluation convenience, attentiveness convenience, transaction convenience, possession convenience, and post-



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possession convenience have a significant statistic because the sig of them equals 0.00 (very small). As a result, these variables affect online customer satisfaction.

R² value is 0.639, and it means that 63.90% of the satisfaction of online customers is from seven factors, and 36.10% of that is from the factors which are outside of the model. The sig value is 0.000, and it is less than 0.05, so the research model is fit, and the variables which use in the model have a significant statistic. What is more, variance inflation factors (VIF) are too small, and these point out that there is no multicollinearity in this model, so all of the independent variables do not correlate together.

The multiple regression model 1 by unstandardized coefficients can be identified:

$$OCS = -0.553 + 0.102*TC + 0.242*SC + 0.101*PC + 0.273*AC + 0.095*PPC + 0.204*EC + 0.148*AAC$$

The multiple regression model 1 by standardized coefficients can be identified:

$$OCS = 0.126*TC + 0.268*SC + 0.111*PC + 0.359*AC + 0.099*PPC + 0.179*EC + 0.171*AAC$$

The results of the regression model 2 and 3 show that the OCSP (online customer satisfaction predicted value) affect buying intention and E-WOM. Because the model 2 and 3 meet all of the requirements of regression model, the multiple regression model 1 and 2 by unstandardized coefficients can be identified:

BI = 0.757*OCSP

EW = 0.672*OCSP

6. CONCLUSION

6.1. Access convenience

The access convenience has the most substantial impact on customer satisfaction when shopping online (standardized beta = 0.359). It is the factor that e-commerce sites need to focus on creating solutions to improve convenient access for the website. From there, businesses can attract and receive customer satisfaction reviews.

The e-commerce websites must fully meet the following factors: page load speed, standard website design (with Search Engine Optimization - SEO), valuable content, website compatible on all mobile devices: PC, smartphone, tablet. Besides, the website must ensure uptime throughout the day to create convenience for customers when they need to access



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shopping. Keeping the online shop running will create favorable conditions for customers to

have flexible shopping time when needed. Moreover, the website must ensure stability,

network security so that the website is always in good working condition, and customers can

access it at any time without any problem.

6.2. Search convenience

Search convenience is the second most influential factor in online customer satisfaction

(standardized beta = 0.268). Putting an e-commerce site on the top of search engines is a must,

but optimizing the search engine on the website to make it convenient for customers is a more

important job. There will be no massive amount of traffic every day if the website is too

confusing, too difficult for customers to manipulate and find the products. Some solutions are

more straightforward with ways to optimize search for an e-commerce website.

The navigation bar and filters: According to usability studies, it shows that the user's

eyes naturally look from left to right, so place the navigation bar on the left; and add space for

details on the left side of the screen. From there, customers can choose to expand the navigation

bar into a drop-down box displaying subcategories. When users have followed the navigation,

they will be taken to a page full of products. Website owners need to provide filter options that

allow customers to quickly see their products - by price, color, material, most recently.

In addition to providing products with colorful, high-resolution images, remember to

add unique, compelling descriptions. That will not only attract shoppers to click on the main

product page more, but Google is also more likely to prioritize a unique product description

over non-original content. Website owners make cross-links between product pages and

categories. That way, shoppers will easily find related products, all of which make them spend

more time on the e-commerce site and reduce bounce rates. Cross-linking is one of the most

effective search methods for e-commerce customers, especially those browsing without having

a clear purchase intent in mind.

Optimize the search box on the web: The search box can help to target customers when

the e-commerce site has a large number of product pages. Depending on the effectiveness of

this tool, the search will take shoppers to the full page of the corresponding product. However,

the site should still entice users into the "task" of exploring the site. Consider using floating

sidebars with the most popular products or categories that follow shoppers during a search or

feed for sales, such as a social shopping page of Fab.com. E-commerce websites should always

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be changing with featured products, sales, and content selection, so that online loyalty

customers are more tempted to discover.

Create a natural search: Mention about the homepage, Google will crawl the data on the

website with the most SEO, usually the homepage. Therefore, the pages that the website links

to the homepage should be the most important. These pages may not necessarily reflect the

navigation bar categories of the e-commerce website. It should be indexed for all the main

pages, catalog pages, and even specific product pages of an e-commerce website. Use Google

Webmaster Tools and Webmaster Central to learn how to effectively index pages, then track

what users search and find in e-commerce pages.

Making optimizing search better: It is necessary to attach strategic keywords (including

long keywords) to e-commerce websites. Use Google's free and paid keyword tool to estimate

website traffic that can be expected from particular words and keyword phrases.

6.3. Evaluation convenience

Evaluation convenience is the third most strong factor that affects online customer

satisfaction (standardized beta = 0.179). Customers always want to make their comments,

opinions, and reviews when they do online shopping at e-commerce sites. Therefore, in order

to meet the needs as well as create interest and confidence for customers, e-commerce sites

need to provide forms for customers to make reviews on the website itself.

Save customer comments: Positive and negative feedback from customers will be the

most apparent evidence for the quality of e-commerce products. When buying online,

customers often read reviews and product reviews to decide whether to buy or not. The website

should publicize the compliments and criticism of customers right on the website to improve

the trustworthiness and publicity of the website.

The website needs to provide detailed specifications of the products that the e-

commerce business website sells. Include content and images in product information to create

a convenient assessment for customers when shopping. Help customers understand the product

information to buy. The e-commerce site also provides enough information to identify various

products.

6.4. Attentiveness convenience

Attentiveness convenience is the fourth most effective factor for online customer

satisfaction (standardized beta = 0.171). One of the biggest problems customers that buy and

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sell online products is the thoughtful convenience of e-commerce sites. E-commerce websites

need to include features like product catalog management.

The website has a messaging area for customer questions and opinions. E-commerce

sites may have to solve all customer complaints quickly and promptly. So the website needs to

have software to manage and take care of customers. The storage of information and customer

buying behavior is the basis for the website to devise effective marketing strategies. Also, e-

commerce websites need add-ons that support multilingual support.

E-commerce sites need to have customer care service to take care of the customer before

and after shopping at the site. The customer care service will take action to send personal

notices with thanks via email or various media when customers shop at the website and update

the status of the shipping process to customers.

6.5. Transaction convenience

Transaction convenience is the fifth influence factor that affecting online customer

satisfaction (standardized beta = 0.126). Nowadays, more and more e-commerce sites are

competing with each other, so solutions to make a difference, usefulness, convenience in sales

stages are focused on improving websites to attract customers and create a competitive

advantage. One of the advantages that e-commerce sites need to pay attention to is building

deals.

The payment process must be fast. The website needs to program the specific steps and

simplify as much as possible so that the payment process between customers and the website

takes place quickly. After adding products to the shopping cart, customers are required to

confirm orders and proceed with the prepayment process via electronic card service or pay cash

on delivery. The payment process takes place quickly and simply without bringing discomfort

or hassle to customers shopping at the site.

Diversified payment methods: In order to create convenience for customers when

paying for shopping expenses, the website needs to offer different forms of payment, ensuring

flexibility and convenience for customers as usual via e-wallet, bank card linking with personal

accounts, pay in cash after receiving goods.

The business must ensure the security of personal data information for customers. For

payment and delivery to take place, customers are required to provide personal information

such as contact phone number, address, gender, year of birth. Providing personal information

is not simple and sometimes uncomfortable for the majority of customers. In order to create



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peace of mind, trust customers when providing personal information, e-commerce sites need

to ensure the confidentiality and privacy of customer information.

6.6. Possession convenience

Convenience ownership is the sixth most influential factor that affects online customer

satisfaction (standardized beta = 0.111). In order to improve the convenience of e-commerce

sites, businesses need to do some solutions related to accuracy and delivery time.

Business needs to guarantee absolute accuracy for what customers order. E-commerce

sites need to make sure that the delivery of products is the right product that customers shop

on the site. Create customer satisfaction and customer confidence in the site. Delivery of the

right products to customers will decrease time, costs, and workforce for the return process when

the delivered products are wrong compared to the customer's orders.

Delivery time needs to be on time. Compared to shopping directly at the store or

supermarket, customers can also receive their products with fast and timely delivery time

without having to spend too much time moving. Also, to ensure the speed of delivery to

customers, the site requires a large delivery force, understanding the transport process is an

advantage to be able to deliver goods to customers in the fastest way.

6.7. Post-possession convenience

Convenience after purchase (post-possession convenience) is the weakest factor

affecting customer satisfaction when shopping online (standardized beta = 0.099). Compared

to other impact factors, post-possession convenience needs durable solutions to increase the

impact on the customer satisfaction process.

E-commerce websites must have a process for exchanging and returning products from

buyers to retailers. In case the delivery is not the same as the original product ordered by the

customer, the process of exchanging and returning the product to the retailer will be interested

and done by customers. Therefore, it is necessary to specify the time to exchange and return,

the form of shipping order for the exchange and return process, the method of contacting the

retailer, the shipping and conversion costs that customers need to make to exchange and return

products to retailers quickly.

There is an interaction of retailers on e-commerce websites: Problems around products

that customers do not understand can contact the retailer directly for answers and problem-

solving process. The customer's process is carried out quickly and promptly, ensuring the

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shortening time for answering customers. The method to contact the retailer for distribution of products that customers order on the website is also clearly displayed, such as phone number, address, the manager.

6.8. Buying intention and Electronic Word-Of-Mouth (E-WOM)

Through the experience of online convenience, customers will feel satisfied. From there, customers will continue to shop online at that website. Besides, customer satisfaction will lead to customers using this website more often to make online purchases. Therefore, online customer satisfaction from online convenience (access convenience, search convenience, evaluation convenience, attentiveness convenience, transaction convenience, possession convenience, and post-possession convenience) is essential.

From online customer satisfaction, customers tend to perform electronic word-of-mouth. Customers share knowledge and information on online sales websites. Also, for other customers, they will read online consumer reviews of the old customers when they do online shopping. Finally, businesses will also receive more benefits and sell more when online loyalty customers recommend people to buy products online from the website where the online loyalty customers usually buy them.

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