International Journal of Current Advanced Research

ISSN: O: 2319-6475, ISSN: P: 2319-6505, Impact Factor: 6.614

Available Online at www.journalijcar.org

Volume 7; Issue 5(I); May 2018; Page No. 12824-12830 DOI: http://dx.doi.org/10.24327/ijcar.2018.12830.2269



MEASURING CUSTOMER PERCEIVED SERVICE QUALITY IN ONLINE SHOPPING: AN EMPRICAL STUDY

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ARTICLE INFO

Article History:

Received 9th February, 2018 Received in revised form 26th March, 2018 Accepted 17th April, 2018 Published online 28th May, 2018

Key words:

Ease of access, Information, Convenience, Communication, Flexibility

ABSTRACT

The purpose of this study is to examine the online shopping service quality and its impact on repurchase intention. The study was conducted based on primary data using a self-administrated questionnaire. The total of 110 samples was collected using convenience sampling technique. To measure customer online shopping service quality, nine factors were identified using factor analysis. These are Ease of access, Information, Convenience, Communication, Website content, Visual appeal, Caring, Flexibility and Responsiveness. Out of the identified dimensions, this study found that there is a significant influence on information and convenience on customer satisfaction. The study also proved that convenience has significant impact on intention to repurchase. The study findings would help the policy makers to formulate appropriate policy towards online shopping service quality.

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INTRODUCTION

Companies use forceful marketing strategies to draw new customers and increase market share at the cost of their competitor to protect products and markets from the competition by maximising customer retention (Fornell, 1992: Ennew and Binks, 1996; Roberts, 2005). Numerous Studies establish that small increases in customer retention rate can cause significant improvement in profitability through reduced cost of attracting new customers. (Lenskold, 2003; Lombardi, Furthermore Service quality, customer value and satisfaction are some of the most important factors of business competition, for manufacturer and service providers. (Zeithaml et al., 1996; Parasuraman et al., 1988). Service quality is important because it strengthen customer loyalty (Boyer and Hult, 2005), a important requisite for the success of e services (Reichheld and Schefter, 2000). The quality of an e services is mainly determined by the quality of the associated websites (Sousa and Voss, 2006). Moreover services is mainly determined by the quality of the associated websites (Sousa and Voss, 2006). Furthermore, Internet can be used to facilitate purchase transactions among all kinds of customers (Grunert and Ramus, 2005). The internet take way the communication barriers created by geography, time zone and location, enabling a "Frictionless" business environment (Yu, J. 2006).

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REVIEW OF LITERATURE

A study conducted by Jayawardhena and Foley (2000) found that speed, website content and design, navigation interactivity and security impact user's satisfaction. Yang and Fang (2004) identified that ease of use and usefulness are important factor in evaluating online service quality. Doll and Tokzadeh (1988) identified content, accuracy, format, ease of use, timeliness have influence on end user satisfaction in the context of online environment. Furthermore Shamdasani et al., (2008) found that perceived control has strongest impact on service quality evaluations and perceived speed of delivery, reliability and enjoyment also have a significant impact on service quality perception. Cox and Dale (2001) have identified four quality factors of website. These are Ease of use, Customer confidence, Online resources and Relationship services. E shopping quality refers to customer perceptions of an e-store's performance and effectiveness in terms of its products or services offerings. (Sejin Ha and Leslie stoel, 2012). Several studies have been conducted with regard to e-shopping quality (Collier and Bienstock, 2006; Cristobal et al., 2007: Francis, 2009; heinonen and strandvik, 2009, La and Kandampully 2002, parasuraman et al., 2005; Wolfinbarger and Gilly, 2003; Yoo and Donthu, 2001; Site Qual, Yoo and Donthu, 2001),e-SERVQUAL (Zeithaml et al.,2000), Web Qual (Loiacono et al., 2007), Internet retail service quality (Janda et al., 2002), eTailq (Wolfinbarger and Gilly, 2003). Quality of electronic service (Fassnacht and Koege, 2006) Even though several studies have been conducted with regard to online service Quality all over the world, most of the studies has been conducted in western perspective. Only limited studies had conducted in South Indian perspective. Therefore the researchers intended to study the influence of online service quality dimensions on customer satisfaction and intention to repurchase.

Proposed Research Model

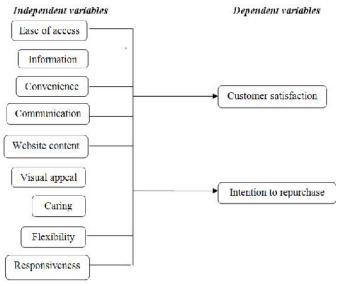


Figure 1

Objectives of the Study

Based on the proposed model, the objectives of the study is confined only

- To identify the online service quality dimensions
- To examine the relative influences of each identified online service quality dimensions in producing customer satisfaction and repurchase intention towards online shopping.
- To study the relationship between online service quality dimensions on customer satisfaction and repurchase intention towards online shopping.

RESEARCH METHODOLOGY

The scope of the study is confined only to the customers who have availed online services frequently. This study was conducted for the period of January 2018 to February 2018. The sample size of the study is 110 respondents. The researchers adopted convenience sampling method for collecting data from the respondents. The researchers adopted questionnaire method for collecting the data from the online shopping customers. The questionnaire consists of three main components. The first part of questionnaire deals with demographic profile of respondents, the second part of questionnaire consists variables relating to customer satisfaction and third part of the questionnaire deals with the variables relating to repurchase intention towards online shopping. The customers have been asked to express their opinion about E-Shopping service quality at five point scale. The variable relating to the present study is drawn from the previous works of Noel Y.M. siu and Jeff Tak-Hing Cheung (2001), Arun Thamizhvannan and M.J. Xavier (2013), Markus Blut, et al., (2015). Suitable modification has been made in existing questionnaire to suit the requirement of present study. Before administrating the questionnaire to the respondents, the

researchers verified the content validity of the questionnaire. After formulating the questionnaire, the researcher conducted the pilot study. The researcher distributed fifteen questionnaires to the customers who had purchased the products from online. Based on their feedback some items in the questionnaire have been modified.

Proposed Hypothesis

This study is approached with the following proposed hypothesis.

 H_{01} : There is no significant impact of ease of access on customer satisfaction

 H_{02} : There is no significant impact of information on customer satisfaction

 H_{03} : There is no significant impact of convenience on customer satisfaction

 H_{04} : There is no significant impact of communication on customer satisfaction

 H_{05} : There is no significant impact of website content on customer satisfaction

 H_{06} : There is no significant impact of visual appeal on customer satisfaction

 H_{07} : There is no significant impact of caring on customer satisfaction

 H_{08} : There is no significant impact of flexibility on customer satisfaction

 H_{09} : There is no significant impact of responsiveness on customer satisfaction

 H_{10} : There is no significant impact of ease of access on intention to repurchase

 H_{11} : There is no significant impact of information on intention to repurchase

 H_{12} : There is no significant impact of convenience on intention to repurchase

 H_{13} : There is no significant impact of communication on intention to repurchase

 H_{14} : There is no significant impact of website content on intention to repurchase

 H_{15} : There is no significant impact of visual appeal on intention to repurchase

 H_{16} : There is no significant impact of caring on intention to repurchase

 H_{17} : There is no significant impact of flexibility on intention to repurchase

 H_{18} : There is no significant impact of responsiveness on intention to repurchase

Data Analysis

From table 1, among the 110 respondents 58 percent were females. In relation to age 36.4 percent of respondents were in the 19 to 38 age group, 26.4 percent in the 29 to 38 age group, 20.9 percent in the 39 to 48 age group, 13.7 percent in the 49 to 58 age group, 2.7 percent were above 59 years. In terms of monthly income of the respondents, 26.4 percent of the respondent had a monthly income of less than Rs.20,000. In terms of work experience, 44.6 percent of respondent has less than one year. In terms of usage period, 32.7 percent of the respondents used online shopping since 3 to 5 years. In terms of time spend on online portal, 30.9 percent of respondents had spend 30 minutes to one hour per day.

Table 1 Demographic profile of the respondents

Table 4 Total Variance Explained

	Ini	itial Eig	envalues		traction a	1.		· ·	s of Squared
Componer		% of	Cumulativ	۵.	% of	Cumulativ	ro.	% of	Cumulative
	Total,	% or Variance	Cumulativ	Total,	70 UI Varianca	cadings Cumulativ	Total,	70 UI	e %
1	7 621	24.617	24.617	7 621	24.617	24.617	2.907	9.379	9.379
2		6.663	31.279		6.663	31.279		8.632	18.011
3		6.384	37.664		6.384	37.664		7.437	25.448
4	1.604	5.173	42.837		5.173	42.837	2.297		32.856
5	1.483	4.784	47.620		4.784	47.620	2.144		39.774
6		4.490	52.110		4.490	52.110	1.987	6.408	46.182
7	1.303	4.205	56.314		4.205	56.314	1.937	6.247	52.430
8	1.194	3.852	60.167		3.852	60.167	1.731	5.585	58.014
9	1.006	3.244	63.411		3.832	63.411	1.673	5.397	63.411
10	.940	3.033	66.444	1.000	3.244	05.411	1.073	3.371	03.411
11	.874	2.819	69.263						
12	.843	2.719	71.982						
13	.785	2.531	74.513						
14	.756	2.438	76.952						
15	.708	2.283	79.234						
16	.686	2.213	81.448						
17	.622	2.005	83.453						
18	.566	1.825	85.277						
19	.538	1.735	87.013						
20	.516	1.665	88.678						
21	.462	1.490	90.168						
22	.441	1.422	91.589						
23	.401	1.293	92.883						
24	.393	1.268	94.151						
25	.351	1.133	95.284						
26	.312	1.008	96.291						
27	.276	.892	97.183						
28	.254	.821	98.004						
29	.251	.810	98.813						
30	.195	.630	99.444						
31	.172	.556	100.000						
			tion Metho	d: Prin	cipal Co	mponent A	nalysis		

Table 2 Kenabinty analysis

Reliability	Statistics
Cronbach's Alpha	N of Items
.901	33

Before analysing data the researchers have administered reliability analysis. The main purpose of reliability analysis is to check the internal consistency of data. The reliability statistics for both dependent and independent variable are 0.901, above the threshold limit.

Online Service Quality Dimensions

Table 3 KMO and Bartlett's test

KMO an	d Bartlett's Test	
Kaiser-Meyer-Olkin Measure	of Sampling Adequacy.	.788
	Approx. Chi-Square	1143.319
Bartlett's Test of Sphericity	Df	465
•	Sig.	.000

Table 3 exhibits the KMO measure of sampling adequacy ranges very high of 0.788 and it is above the generally acceptable level of 0.060. This shows that there is the strong correlation between one variable and the other. Hence, it is laid a positive measure to perform the factor analysis.

Table 4 exhibits the customer perceived service quality variables and it is factored into 9 variables explaining 63.411 of the total variance explained.

A principal components factor analysis with varimax rotation was performed on the 31 items that assessed the perceived service quality of the online shopping. The statistical test result (KMO = 0.788, Bartlett Test of sphericity = 1143.319, Significance = 0.000) indicated that the factor analysis method was appropriate.

Factor I, which as labelled as Ease of access, and it is composed of five items. Factor II, comprised of five items that related to the information. Factor III, consist of four items related to convenience. Factor IV, consist of three items relevant to communication. Factor V consist of three items relating to website content .Factor VI, consist of three items related to Visual appeal .Factor VII, it consist of three items related to caring. Factor VIII, consists of three items related to flexibility. Factor IX, comprise of two items related to responsiveness.

The *table 6* reports the results of multiple regression model with the customer satisfaction as dependent variable and nine dimensions as the independent variables, the results shows that all nine dimensions contributing significantly (F=7.870, p=0.000) predict 36.2 percent of the variation in customer satisfaction. Out of the identified dimensions, the study found that Information has significant influence on customer satisfaction. (=0.269, t=2.619,p 0.05) followed by Visual appeal (=0.223, t=2.374,p 0.05)

Table 4 Total Variance Explained

C	Iı	nitial Eigenva	lues	Ext	raction Sums of Loadings	Squared	Rota	tion Sums Loadi	s of Squared ings
Component -	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7.631	24.617	24.617	7.631	24.617	24.617	2.907	9.379	9.379
2	2.065	6.663	31.279	2.065	6.663	31.279	2.676	8.632	18.011
3	1.979	6.384	37.664	1.979	6.384	37.664	2.306	7.437	25.448
4	1.604	5.173	42.837	1.604	5.173	42.837	2.297	7.408	32.856
5	1.483	4.784	47.620	1.483	4.784	47.620	2.144	6.918	39.774
6	1.392	4.490	52.110	1.392	4.490	52.110	1.987	6.408	46.182
7	1.303	4.205	56.314	1.303	4.205	56.314	1.937	6.247	52.430
8	1.194	3.852	60.167	1.194	3.852	60.167	1.731	5.585	58.014
9	1.006	3.244	63.411	1.006	3.244	63.411	1.673	5.397	63.411
10	.940	3.033	66.444						
11	.874	2.819	69.263						
12	.843	2.719	71.982						
13	.785	2.531	74.513						
14	.756	2.438	76.952						
15	.708	2.283	79.234						
16	.686	2.213	81.448						
17	.622	2.005	83.453						
18	.566	1.825	85.277						
19	.538	1.735	87.013						
20	.516	1.665	88.678						
21	.462	1.490	90.168						
22	.441	1.422	91.589						
23	.401	1.293	92.883						
24	.393	1.268	94.151						
25	.351	1.133	95.284						
26	.312	1.008	96.291						
27	.276	.892	97.183						
28	.254	.821	98.004						
29	.251	.810	98.813						
30	.195	.630	99.444						
31	.172	.556	100.000						
				hod: Pri	ncipal Componen	t Analysis.			

 Table 5 Factor analysis

······································					ponent Matrix ^a Component				
	1	2	3	4	5	6	7	8	9
Q27	.731								
Q18	.617								
$\tilde{Q}21$.542								
Q29	.494								
\tilde{Q} 28	.433								
Q12		.780							
Q4		.724							
$\widetilde{Q}6$.561							
$\tilde{Q}8$.468							
$\widetilde{Q}2$.422							
\tilde{Q} 17			.764						
Q30			.680						
\overline{Q} 5			.492						
\widetilde{Q} 22			.448						
$\widetilde{Q}25$.829					
Q9				.650					
$\widetilde{Q}3$.379					
Q16					.792				
Q19					.677				
Q24					.438				-
Q14						.812			
Q15						.448			
Q11						.444			
Q31							.647		
Q26							.617		
Q1							.590		
Q23								.730	
Q13								.640	
Q20								.431	
Q10									.697
\tilde{Q} 7									.687
					cipal Componen				
			Rotation Me	thod: Varimax	with Kaiser No	rmalization.			

Table 6 Impact of the dimensions of online service quality on customer satisfaction

Dimensions	t	Beta	Significance									
Relationship amoi	ng nine servi	ce quality d	limensions,									
cu	customer satisfaction											
Constant	.001		.999									
Ease of access	1.547	.163	.125									
Information	2.619	.269	.010									
Convenience	339	031	.735									
Communication	2.231	.216	.028									
Website content	130	012	.897									
Visual appeal	2.374	.223	.020									
Caring	.578	.056	.564									
Flexibility	335	031	.738									
Responsiveness	378	034	.707									
\hat{R}			0.644^{a}									
R square			0.415									
Adjusted R ²			0.362									
F Statistics			7.870									
Significance			0.000									

Impact of online service quality dimensions on intention to repurchase online

The *table 7* shows that the impact of online service quality dimensions on repurchase intention. The adjusted $R^2 = 0.300$ was statistically significant. The results shows that all the nine dimensions of online service quality predict 30 percent of variation in intention to repurchase. Out of the identified dimensions, the study found that Convenience has significant impact on repurchase intention. (=0.375, t=3.896,p 0.05). All other online service quality dimensions does not have any significant influence on repurchase intention.

Table 7 Impact of the dimensions of online service quality on intention to repurchase

Dimensions	t	Beta	Significance
Relationship among i	nine service qu	uality dimen	sions on intension
	to repurchas	e online	
Constant	-1.085		.281
Ease of access	-1.997	220	.048
Information	.914	.098	.363
Convenience	3.896	.375	.000
Communication	1.689	.171	.094
Website content	323	032	.747
Visual appeal	.687	.067	.493
Caring	1.908	.193	.059
Flexibility	.689	.067	.493
Responsiveness	.656	.061	.514
R			0.598^{a}
R square			0.358
Adjusted R ²			0.300
F Statistics			6.201
Significance			0.000

Relationship of Online Service Quality Dimensions

Table 8

Relati	onship b	etween	online	shoppi	ing serv	ice qua	dity or	custo	mer s	atisfa	ction
S. No.		EAS	INF	CNV	COM	WEC	VIA	CAR	FLX	RSP	CS
1.	EAS	1	.461**	.433**	$.428^{**}$.407**	$.498^{**}$.474**	.458**	.239*	.476**
2.	INF		1	.362**	.496**	.488**	.362**	.491**	.400**	.282**	.520**
3.	CNV			1	.384**	.326**	.247**	.320**	.344**	.379**	.265**
4.	COM				1	.342**	.309**	.315**	.374**	.403**	.464**
5.	WEC					1	$.400^{**}$.434**	.288**	.150	.348**
6.	VIA						1	.426**	$.229^*$.219*	.464**
7.	CAR							1	.348**	.223*	.394**
8.	FLX								1	.362**	.276**
9.	RSP									1	.204*
	CS										1

From the *Table 8*, it is observed that all the online service quality dimensions are positive relationships with the customer satisfaction.

Table 9

Rela	tionshi	p betwee	n online	e shoppi	ng servi	e qualit	y on inte	ention to	repurch	iase
S. No.	EAS	INF	CNV	СОМ	WEC	VIA	CAR	FLX	RSP	IR
EAS	1	.461**	.433**	.428**	.407**	.498**	.474**	.458**	.239*	.218*
INF		1	.362**	.496**	.488**	.362**	.491**	.400**		.365**
CNV			1	.384**	.326**	.247**	.320**	.344**		.495**
COM				1	.342**	.309**	.315**	.374**	.403**	.390**
WEC					1	.400**	.434**	.288**	.150	.246**
VIA						1	.426**	$.229^{*}$	$.219^{*}$	$.237^{*}$
CAR							1	.348**		.363**
FLX								1	.362**	.294**
RSP									1	.325**
IR										1

Note: EAS: Ease of access, INF: Information, CNV: Convenience, COM: Communication, WEC: Website content, VIA: Visual appeal, CAR: Caring, FLX: Flexibility, RSP: Responsiveness, CS: Customer Satisfaction.

From the *Table 9*, it is observed that all the online service quality dimensions are positive relationships with the customer satisfaction.

Testing of Hypothesis

The study is approached with the following proposed hypothesis

S. No	O Hypothesis B	eta	Results	
IIoı	There is no significant impact of ease of access on customer satisfaction	.163	Accepted	
H ₀₂	There is no significant impact of information on customer satisfaction	.269	Rejected	
TI ₀₃	There is no significant impact of convenience on customer satisfaction	031	Accepted	
1104	There is no significant impact of communication on customer satisfaction	.216	Accepted	
H ₀₅	There is no significant impact of website content on customer satisfaction	012	Accepted	
II ₀₆	There is no significant impact of visual appeal on customer satisfaction	.223	Rejected	
H ₀₇	There is no significant impact of earing on customer satisfaction	.056	Accepted	
1108	There is no significant impact of flexibility on customer satisfaction	031	Accepted	
Hag	There is no significant impact of responsiveness on customer satisfaction	034	Accepted	

S. No	Hypothesis	Beta	Results
H ₁₀	There is no significant impact of ease of access on intention to repurchase	220	Accepted
H 11	There is no significant impact of information on intention to repurchase	.098	Accepted
11,2	There is no significant impact of convenience on intention to repurchase	.375	Rejected
H ₁₃	There is no significant impact of communication on intention to repurchase	.171	Accepted
1114	There is no significant impact of website content on intention to repurchase	032	Accepted
H ₁₅	There is no significant impact of visual appeal on intention to repurchase	. 087	Accepted
H ₁₆	There is no significant impact of caring on intention to repurchase	.193	Accepted
H ₁₇	There is no significant impact of flexibility on intention to repurchase	.067	Accepted
H ₁₈	There is no significant impact of responsiveness on intention to repurchase	.081	Accepted

CONCLUSION

This study identified the nine dimensions of online shopping service quality. These are Ease of access, Information, Convenience, Communication, Website content, Visual appeal, Caring, Flexibility and Responsiveness. Out of the identified dimensions, this study found that there is a significance influence on information and visual appeal on customer satisfaction. The study also proved that there is a significant impact on convenience on repurchase intention. This study also found that there is a significant correlation exists among online service quality dimensions on customer satisfaction and intention to repurchase.

LIMITATIONS & SCOPE FOR FUTURE RESEARCH

The study considers only limited number of variables of online service quality. Further studies could incorporate additional antecedents of online shopping service quality. This study has been confined only to limited number of sample respondents. In future, more number of sample respondents may be considered. This study considers both male and female customers opinion on measuring overall service quality. In future, separate study may be conducted for male customer perception on online shopping service quality and female customer perception on online shopping service quality.

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How to cite this article:

Sivaji S and Krishnamoorthy V (2018) 'Measuring Customer Perceived Service Quality in Online Shopping: An Emprical Study', *International Journal of Current Advanced Research*, 07(5), pp. 12824-12830. DOI: http://dx.doi.org/10.24327/ijcar.2018.12830.2269
