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# Customer Satisfaction and Service Quality Perception of Technology Based Banking Services: A Study on Selected Public Sector Banks in India Rajeev Kumar<sup>1</sup> <sup>1</sup> University School of Management, Kurukshetra University, Kurukshetra India *Received: 8 February 2015 Accepted: 3 March 2015 Published: 15 March 2015*

### 8 Abstract

17

In recent time, we have witnessed that the World Economy is passing through some intricate 9 circumstances as bankruptcy of banking financial institutions, debt crisis in major economies 10 of the world and euro zone crisis. This poses some serious questions about the survival, growth 11 and maintaining the sustainable development. The tempo of development for the Indian 12 banking industry has been remarkable over the past decade. Indian banking industry has been 13 striving hard to gain Business Excellence through Technology Based Banking Services (TBBS) 14 from the use of computerisation in early 90?s to Ru-pay card in 2013. Even, India has 15 witnessed the rapid growth of ATMs and use of other tools of E- banking (RBI, 2013). 16

18 Index terms—customer service quality perception, business excellence, customer satisfaction, TBBS.

# <sup>19</sup> 1 Customer Satisfaction and Service Quality Perception of <sup>20</sup> Technology Based Banking Services: A Study on Selected <sup>21</sup> Public Sector Banks in India

Abstract-In recent time, we have witnessed that the World Economy is passing through some intricate 22 circumstances as bankruptcy of banking & financial institutions, debt crisis in major economies of the world and 23 euro zone crisis. This poses some serious questions about the survival, growth and maintaining the sustainable 24 development. The tempo of development for the Indian banking industry has been remarkable over the past 25 decade. Indian banking industry has been striving hard to gain Business Excellence through Technology Based 26 Banking Services (TBBS) from the use of computerisation in early 90's to Ru-pay card in 2013. Even, India has 27 witnessed the rapid growth of ATMs and use of other tools of E-banking (RBI, 2013). The Indian government 28 is keen to implement the direct benefit transfer using Aadhaar card. The bank accounts are being linked to 29 the Aadhaar card and the transfer of subsidies will be facilitated by the TBBS. So it is necessary to know the 30 31 Customer Service quality perception of the existing TBBS and its customer satisfaction so that the necessary 32 improvement if any can be suggested to bankers. This is an empirical study where primary data has been collected 33 through SSTQUAL the scale of Lin and Hsieh (2006).

The scale has been administered on 250 customers of selected public sector banks from Indian Banking Industry, chosen on a convenient basis. The purpose of this paper is to evaluate the service quality of selected government owned banks, based on different levels of 'customers' perception regarding service quality. The study provides a practical application to measure service quality perception within TBBS in India. The current study includes an assessment model that might help bankers and researchers investigate customer perceptions of TBBS in India. Keywords: Customer service quality perception, business excellence, Customer satisfaction, TBBS.

### 40 2 II. Review of the Literature

A review of the literature revealed extensive research regarding the nature of services, service quality dimensions
influencing customer perceptions, SAT, and BI (Parasuraman, Zeithaml, & Berry, 1988;Seth, Deshmukh, & Vrat,
2005), although limited research exists on understanding customer perceptions of TBBS (Shamdasani, Mukherjee,
& Malhotra, 2008).

The conceptualization and measurement of service quality perceptions have been the most debated and 45 controversial topics in the service marketing literature to date according to Brady and Cronin (2001). Brady and 46 Cronin posited a multi-hierarchical model where service quality consists of dimensions and sub-dimensions. Brady 47 and Cronin's suggested model combined previous models in service quality including SERVQUAL (Parasuraman 48 et al., 1988), the Nordic model (functional, technical, and image) by Gronroos (1984), the three component model 49 (Rust & Oliver, 1994), and the multilevel model (Dabholkar, Thorpe, & Rentz, 1996). Cronin was also a coauthor 50 of the SERVPERF with Taylor (Cronin & Taylor, 1992). According to Brady and Cronin (2001) interactions 51 might concentrate only on a subset of the dimensions. The final hierarchical model included many aspects of 52 service quality to cover a wide range of service industries and contexts. Hence, the original SERVQUAL remained 53 a relevant research domain (Saravanan & Rao, 2007) and many researchers continued to use it (Chang, 2007). 54 The development of technology-based services (TBS) has triggered further research on what constitutes better 55 service quality in TBS (Dabholkar, 1994 Lin and Hsieh (2006) provided a model and a survey instrument to 56

57 examine service quality within TBS and indicated that functionality, enjoyment, security, assurance, design, 58 convenience, and customization constitute service quality dimensions within self-service technologies dimensions 59 are general to TBS across industries, no research has included an evaluation of the service quality of TBS in the 50 banking industry. Lin and Hsieh called for further research in the area of service quality of TBS in the banking 51 industry. Lin and Hsieh (2006) described seven dimensions (functionality, enjoyment, security, assurance, design, 52 convenience, and customization) that constitute customer expectations of service quality within self-service

63 technologies. The current quantitative correlational research design involved an examination into whether a

<sup>64</sup> relationship exists between perceived service quality as employed in TBBS within Indian public sector banks and

65 customer

# <sup>66</sup> 3 III. Significance of the Study

The research study provided original contributions to fill two main knowledge gaps. First, the study contributed to current and future research by comparing and contrasting related literature. Second, the study provided a practical application to measure service quality within TBBS in India. The current study included an assessment model that might help bankers and researchers investigate customer perceptions of TBBS.

Previously researchers have operationalized service quality by developing assessment scales such as SERVQUAL (Parasuraman et al., 1988), WebQual (Loiacono, Watson, & Goodhue, 2002), SITEQUAL (Yoo & Donthu, 2001), and E-S-QUAL (Parasuraman et al., 2005). The current study confirmed a TBBSQUAL model to help bankers in India to monitor and assess TBBS. The research findings from the study made it feasible for public sector bankers in India to be able to identify shortfalls of service quality and allocate resources to prevent and improve

<sup>76</sup> customer perceptions and behaviors toward TBBS.

# <sup>77</sup> 4 IV. Research Objectives

78 1) To measure which public sector bank has highest level of customer satisfaction among selected banks. 2)
79 To establish a relationship between customer satisfaction and TBBS quality dimensions. 3) To establish a
80 relationship between TBBS quality dimensions, customer satisfaction and customer's behavioral intentions.

# <sup>81</sup> 5 V. Research Methodology

This is a descriptive empirical study. The data collection instrument was a structured questionnaire as suggested by Lin and Hsieh (2006). ). Lin and Hsieh (2006) provided a model and a survey instrument to examine service quality within TBBS and indicated that functionality, enjoyment, security, assurance, design, convenience, and customization constitute service quality dimensions within self-service technologies a) Sample and data collection

# <sup>86</sup> 6 VI. Analysis and Findings

87 The collected data has been analyzed by using SPSS version 21. The survey asked the respondents about their 88 demographics such as age, gender, years with current bank and awareness level of TBBS. Over 50% of the sample 89 is under the age of 40 years, and only 13% of the sample is over the age of 60 years. Data was collected through 90 personally administered survey from 250 customers of five banks selected from public sectors on the basis of 91 number of ATMs and branches from banking industry in India. 50 customers from each bank were included through convenience sampling method. The selection of the customers depended upon two conditions, first the 92 customer should have a debit/credit/smart card and second, he has used any one of the TBBS in last 30 days. 93 The data was collected using survey instrument developed by Lin and Hsieh (2006) on 7-point liker scale from 94 ATMs, branches of selected banks and from malls in NCR region in India. 3. shows customer's years of experience 95

 $_{96}$  in using TBBS of selected banks. Over 55% of the respondents from the sample have been using services of the

97 selected banks for more than 5 years. And 13.2 % from the sample have been using services of the selected banks 98 for more than 15 years. This shows the interest and suitability or trust of customers for public sector banks.

# <sup>99</sup> 7 a) Customer satisfaction

100 Respondents were asked three questions pertaining to the CSAT (customer satisfaction).

### <sup>101</sup> 8 Global Journal of Management and Business Research

Volume XV Issue V Version I Year () As shown in Table 5, the survey results reflected that at least 90 % of the respondents were in agreement with "Overall, I am satisfied with the TBBS offered by the bank." As per the analysis using arithmetic mean of all three statements of CSAT it was found that Canara Bank's customer are the most satisfied with TBBS offered by the said bank than the other four public sector banks, followed by Union Bank of India (Table 5).

A linear multiple regression analysis with stepwise method was used to analyze the relationship The Table 107 7 includes the beta weights (slope) of India. The result of the regression model indicated a low level of 108 multicollinearity (Table 7). The bank leader in public sector banks might use the following formula to estimate the 109 CSAT: CSAT = 0.51 + 0.31 Enjoyment + 0.27 Customization + 0.16 Design + 0.17 Functionality + error When 110 predicting CSAT, assurance did not add to the combined model because service provider's higher reputation 111 might increase customer expectations of the service provider, making the gap between service expectations and 112 service perception very high. Expectation-Disconfirmation theory indicates that a high gap between perceptions 113 and expectations might lead to a decrease in customer satisfaction (Oliver, 1980). 114

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b) Predicting customer satisfaction using TBBS dimensions among customer satisfaction (CSAT), and customer service quality perception (CSQP). The multiple regression analysis indicated that the service quality dimensions of Enjoyment, Customization, Design and Functionality (independent variables) combined together appear to explain CSAT with r = 0.712, r-square = 0.506 and adjusted r-square = 0.50. The regression model fit the data with an F test = 62.850 that is significant at the p<0.01 level (Table 6).

each variable and a constant (intercept) of the service quality dimensions associated with TBBS. The 122 independent variables in combination can predict CSAT of TBBS offered by selected Public Sector Banks 123 in Customer behavioral intentions (CBI) refer to customer feeling towards TBBS for repeat purchase and 124 to recommend the TBBS to use. A linear regression analysis was conducted to predict customer behavioral 125 intentions (CBI) towards TBBS in terms of service quality dimensions. The multiple regression analysis seemed 126 to indicate that service quality dimensions of Customization, Design, Assurance and functionality combined 127 together significantly explained CBI towards TBBS with r = 0.7, r-square = 0.47 and adjusted require = 0.46. 128 The regression model and each of the independent variables mentioned appeared to be significant at the p < 0.01129 level (Table 8). The regression model fit the data with an F-test = 55.241 that is significant at the p<0.01 130 level. Service security, enjoyment and convenience did not seem to contribute to the fitness of the model so they 131 are not included in regression results. Table-9 includes the beta weights (slope) of each variable and a constant 132 (intercept) of service quality dimensions associated with TBBS. 133

The regression analysis results indicate that when combining service quality dimensions, four dimensions might 134 operate positively together to predict CBI towards TBBS of selected PSB in India. These dimensions accounted 135 for only 46% of the variability in CBI. Bank leaders in PSB might use the following formula to estimate CBI: 136 CBI = 0.20 + 0.30 Customization + 0.26 Design + 0.22 Assurance + 0.20 Functionality + error this reason, the 137 regression model was conducted to address CBI as a function of CSAT and TBBSQUAL dimensions. The results 138 generated a better fit model that explained customer behavioral intentions with r = 0.766, r-square = 0.587 and 139 adjusted r-square = 0.588 and Ftest = 116.6 at p<0.01(Table 10). Ajzen (2005) indicated a customer's attitude 140 towards a behavior determined customer intentions. Because a customer has a positive attitude toward a service, 141 the customer's intentions would be positive. For d) Predicting customer behavioral intentions using CSAT and 142 **TBBS** dimensions 143

### 144 10 Conclusion

145 TBBS have been a critical component of service delivery in the banking industry (Dabholkar, 1996; ??euter et al., 2000). As per the analysis it can be said that all the selected public sector banks are competing each other 146 147 on providing the better TBBS. From the current research it is found that Canara Bank's customer are most 148 satisfied with TBBS offered by the said bank than the other four public sector banks, followed by Union Bank of India. The research indicated that the service quality dimensions of Enjoyment, Customization, Design and 149 Functionality combined together appear to explain customer satisfaction in selected public sector banks India. 150 The service Security, Convenience and Assurance did not contribute to the fitness of the model. So bank leaders 151 are suggested to work hard on Enjoyment, Customization, Design and Functionality aspects of the services to 152 make customers satisfied. 153

### 11 VIII. LIMITATIONS OF THE STUDY

The current research seemed to indicate that service quality dimensions of Customization, Design, Assurance and functionality combined together to explain customer behavioral intentions towards TBBS. Ajzen (2005) indicated a customer's attitude toward a behavior determined customer intentions. Because a customer has a positive attitude toward a service, the customer's intentions would be positive.

For this reason, the regression model was conducted to address CBI as a function of SAT and TBBSQUAL dimensions. These findings seemed to validate the literature that service quality is an antecedent of CSAT and CBI. The model indicates that Customer Satisfaction and service quality dimensions are able to explain 60% of variability of Customer Behavioral Intentions. That is why customer satisfaction (CSAT) shapes customer's attitude, which determines the behavioral intentions in selected PSBs. Service assurance, which represents the bank's reputation, shapes the subjective norms that determine Customer Behavioral Intentions towards TBBS.

# <sup>164</sup> 11 VIII. Limitations of the Study

165 The current research study was limited to customers of selected public sector banks in Indian banking industry

which constitutes public, private and foreign sector banks, who agreed to participate voluntarily within the time available to conduct the study. The examination included customer perceptions of TBBS service quality, CSAT,

167 available168 and CBI.

The use of non-probability sampling was a limitation. Because of the inability to access customer databases to perform a probability sampling, a convenience sampling technique was necessary.

171 The sampling procedure included the application of a quota sampling technique to add an element of control

- to the generalizability of the findings over the population. According to Neuman (2006), quota sampling is an
- $^{173}$  enhanced form of convenience sampling. Convenience sampling helped to ensure that qualified participants were among the target population  $^{1-2}$



Figure 1:

1

174

Figure 2: Table 1 :

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Age	<20	20-40	40-60	>60
	Years	Years	Years	Years
Count	24	116	77	33
%	9.6	46.4	30.8	13.2

Figure 3: Table 1 :

# $\mathbf{2}$

1

# Figure 4: Table 2 :

ົ
4

Name of	Female	Male	Total
Bank			
SBI	20	30	50
PNB	14	36	50
CB	20	30	50
UBI	22	28	50
BOB	14	36	50
Count	90	160	250
%	36	64	100

Figure	5:	Table	<b>2</b>	:
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# 3

Years	$<\!\!5$	5-10	10-15	>15	Total
with	years	years	years	Years	
selected					
bank					
Count	106	66	45	33	250
%	42.4	26.4	18	13.2	100

Figure 6: Table 3 :

# Figure 7: Table

### 4

ONLY ATM	99
ATM & NET BANKING	021
ATM & MOBILE BANKING	08
ATM & NET BANKING & MOBILE BANKING	019
ATM & USE OF CARD FOR PAYMENT	007
ATM & NET BANKING & USE OF CARD FOR PAYMENT	018
ATM & MOBILE BANKING & USE OF CARD FOR PAYMENT	03
USAGE OF ALL TBBS	075
TOTAL	250

Figure 8: Table 4 :

 $\mathbf{4}$ 

Figure 9: Table 4

### $\mathbf{5}$

CUSTOMER
SATISFACTION
5.45
5.15
5.64
5.66
5.55

# Figure 10: Table 5 NAME

### 6

Model	Sum	of	df	Mean	F	Sig.
	Square	$\mathbf{s}$		Square		
Regression	105.274	1	4	26.318	62.85	0.000
Residual	102.594	1	245	.419		
Total	207.868	3	249			
Predictors: (Constant), ENJ, CUS, DES, FUN						
The service Security, Convenience and						
Assurance did not contribute to the fitness of the model,						
so it was not included in the regression results.						

Figure 11: Table 6 :

Unstandardized Co	oefficients	Standardized Coefficients	t	Sig.	
В	Std. Error	Beta			VIF
.510	.321		1.588	.114	
.314	.070	.286	4.496	.000	2.006
.268	.067	.259	4.008	.000	2.076
.159	.058	.162	2.745	.007	1.732
.171	.067	.152	2.543	.012	1.775
	Unstandardized C B .510 .314 .268 .159 .171	Unstandardized Coefficients         B       Std. Error         .510       .321         .314       .070         .268       .067         .159       .058         .171       .067	$\begin{array}{ccc} \text{Unstandardized $\Box$ efficients} & \text{Standardized} \\ & & \text{Coefficients} \\ \hline \text{B} & \text{Std. Error} & \text{Beta} \\ .510 & .321 \\ .314 & .070 & .286 \\ .268 & .067 & .259 \\ .159 & .058 & .162 \\ .171 & .067 & .152 \\ \end{array}$	$\begin{array}{c cccc} Unstandardized $C$ efficients \\ B & Std. Error \\ .510 & .321 \\ .314 & .070 \\ .268 & .067 \\ .159 & .058 \\ .162 \\ .171 \\ .067 \\ .152 \\ .152 \\ .152 \\ .152 \\ .152 \\ .152 \\ .152 \\ .152 \\ .154 \\ .152 \\ .152 \\ .154 \\ .152 \\ .154 \\ .152 \\ .154 \\ .154 \\ .152 \\ .154 \\ .154 \\ .155$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Figure 12: Table 7

8

				: ANOV	'A			
	Model	Sum	of	df	Mean	F	Sig.	
		Squares			Square			
	Regression	120.695		4	30.174	55.241	.000	
	Residual	133.825		245	.546			
	Total	254.520		249				
Predictors: (0	Constant), CUS, I	DES, ASS, FU	JN					
				Table 9				
Model	Unstandardize	Unstandardized Coefficients		Standar	dized	$\mathbf{t}$	Sig.	
				Coefficie	ents			
	В	Std. Erro	or		Beta			VIF
(Constant)	.198	.370				.534	.594	
CUS	.291	.072			.255	4.029	.000	1.861
DES	.257	.069			.236	3.730	.000	1.862
ASS	.219	.069			.193	3.193	.002	1.698
FUN	.201	.072			.161	2.769	.006	1.585

Figure 13: Table 8

7

### $\mathbf{10}$

Customer Satisfaction and Service Quality Perception of Technology Based Banking Services: A Study on Selected Public Sector Banks in India c) Predicting customer behavioral intentions using tbbs dimensions

Model Regression	Sum o Squares 149.436	of df 3	: ANOVA Mean Square 49.812	F 116.609	Sig. .000
Residual	105.084	246	.427		
Total	254.520	249			
Predictors: (Constant), CSAT, ASS, DES	3				
The model included CSAT, Service Assur	ance		significantly related w	vith model	. Table 11 include
and Design. All other service quality dim	ensions	are not	beta co-efficient of the	e model.	
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					nals
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					(US)

Figure 14: Table 10

Model	Unstandardized Coefficients		Standardized Coefficients	t	
	В	Std.	Beta		
		Er-			
		ror			
(Constant)	157	.316		-	
				.49	
CSAT	.562	.054	.508	10.	
ASS	.270	.057	.238	4.7	
DES	.192	.059	.176	3.2	
These findings seemed to agree with the			That's why customer sa	ntisfa	
literature that service quality is an antecedent of	f CSAT		shapes customer's attitu	ude,	
and CBI. When CSAT is added to the regression	n model		behavioral intentions in	sele	
of predicting CBI in terms of TBBSQUAL, CSA	Т		assurance, which repres	ents	
accounted 0.50 while the next predictor was			shapes the subjective ne	orms	
approximately 0.23 in standardized terms. The r	nodel		Sector Bank leaders might 1		
indicates that CSAT and service quality dimensi	ons are		estimate CBI in terms of Cf		
able to explain 60% of variability of CBI (Strong	S		dimension associated w	ith ]	
Relationship) where as service quality dimension	s alone				
are able to explain only 47% of CBI variability (	medium				
relationship; creswell 2008)					

Customer satisfaction seems to be the major determinate of CBI. This finding seemed to confirm a path relationship similar to the original research on the relationship between service quality, CSAT and CBI discussed in literature (Alkibsi 2011, Cronin & Taylor, 1992; Lin & Hsieh, 2006; Parasuraman et al., 1988). VII.

Figure 15: Table 11

CBI = -0.15 + 0.56 CSAT + 0.27 Assurance + 0.22 Design

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