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CUSTOMER PERCEPTIONS OF NEW AGE OF INDIAN BANKING SYSTEM TOWARDS INTERNET BNAKING USAGE

(A Study with special reference to the Chennai city-Tamil Nadu)

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Abstract

Purpose: The main objective of this study is to indicate Customer awareness new age of Indian banking system and socio-economic conditions of the banks' customers and to assess the underlying dimensions of internet banking usage in Chennai City.

Design / Methodology: The study aim is Exploratory and analytical in nature.

Implications: Banking sector play vital major role for economic development of the country and technology has a great positive impact on banking sector. It is believed that it may replace traditional method of banking (physical presence) soon in the near future.

Originality: Customers can now access their account and transact sitting at home and office. For banks, internet banking has emerged as strategic source for achieving higher efficiency, faster operational cycle and reduction of various costs by reducing paper-based transactions and labour-intensive techniques with computerized processes. This all lead to higher profitability to banks.

Findings: The concluded that awareness has significant effect a positively correlated on intention to use of internet banking.

Key Words: Customer awareness, New Age in banking, Internet banking, Internet Usage, Service quality and Customer Service etc.

Introduction

Banking sector play vital major role for economic development of the country and technology has a great positive impact on banking sector. Rapid advancement of science and technology in 21st century has made our daily life much easier and more comfortable. Excellent development of technology has a great positive impact on banking sector. Internet banking was first introduced in the year 1983 in UK and introduced in India by ICICI bank in 1998. It can be defined as the modern process or practice of conducting financial transaction through the use of internet in our computer, smart phones or tablet by accessing through the bank's websites. It is also known as e-banking, online banking, net banking or virtual banking and one of the most convenience platforms of doing business for banks, organizations, societies, groups or individual gains without physically presenting at the bank. It can be presumed that almost everything can be done through the use of internet today. It saves our time, money and energy. However, banks' customers encounter so many obstacles in the process of internet banking and it has got certain drawbacks of high risks, lack of computer knowledge and awareness, internet connectivity problems and cost and language issues. Internet banking is greatly practicing in Chennai city of Tamil Nadu. The main objective of this study is to indicate the socio-economic conditions of the banks' customers and to assess the underlying dimensions of internet banking variables in Chennai. It is believed that it may replace traditional method of banking (physical presence) soon in the near future.



New Age of Banking System In India

The following the new age banking system used in India as follows

- 1. Internet Banking (IB)
- 2. Real Time Gross Settlement (RTGS)
- 3. National Electronic fund Transfer (NEFT)
- 4. Electric Purse Service (EPS)
- 5. Immediate Payment Service (IMPS)
- 6. Unified Payments interface (UPI)
- 7. Mobile Banking (MB)
- 8. Cloud Banking (CB)
- 9. Retail Banking (RB)
- 10. Blockchain Technology (BT)

Review Matrix

The following review matrix used for the research

Mohd Thas Thaker (2021) According to the researcher, survey questionnaires were distributed among the clients of Islamic banks in two major states, namely Kuala Lumpur and Selangor. The data was analysed with the partial least squares (PLS) method, and the theoretical framework for this study is led by the unified theory of acceptance and use of technology 2 (UTAUT2). According to the findings, clever PLS analysis produced three key outcomes: variables such as performance expectancy, effort expectancy, price value, facilitating situations, and habit have a favourable influence on behavioural intention. The researchers stated that the study will be ground-breaking in terms of identifying characteristics that influence customers' continued acceptance of IB.

Raza, S. A (2020) Based on distinct conceptions, an exclusive study attempts to investigate the structural relationship between Internet banking service quality, electronic customer pleasure, and electronic customer loyalty. In this study, a quantitative technique is used to collect data from 500 bank customers in Pakistan using structured questionnaires, and the theoretical model is tested using partial least square structured equation modelling (PLS-SEM). According to the study, service quality is highly significant in every society since it has become the foundation for how customers interpret online banking and, ultimately, how it interacts and operates with online services. The researcher concluded that the Internet banking industry is effective in developing effective marketing strategies, establishing long-term connections with clients, and gaining a competitive advantage in the market.

Research Methodology Matrix

S.NO	Methodology	Instruments							
1	Population of the study	Bank customers of those who are using Internet							
		banking in Chennai city							
2	Method of Data Collection	Sample survey method. Convenient Non -Random							
		sampling method was adopted							
3	Technique of Data Collection	Structure Questionnaire technique							
4	Secondary Data Collection	Secondary Data: Textbooks, newspapers, journals,							
		magazines and associated websites were used to							
		gather secondary data in this study.							
5	Determination of Sample Size	A total of 200 copies of questionnaire were issued as							
		equally to students, trader, working group etc I greater							
		Chennai. Finally, 115 questionnaires were considered							

		for the study	
6	Data Collection Period	From 1.3.2022 to 20.3.2022	
7	Sample Size	115 Sample	
8	Types of Data	Primary and secondary data.	
9	Scaling Technique	Five Point Likert scale	
10	Statistical Package	(SPSS) Version 21.0.	

IV Statistical tools used for the study

- 1. Percentages Analysis
- 2. Descriptive Statistics
- 3. Test of Normality
- 4. Factor analysis and
- 5. Regression Analysis

Research Gap

Because Internet banking is a new concept, there are few research studies on the subject. Various authors' literatures on online banking and mobile banking were discussed in this chapter. In their research, they discovered a number of factors and measures. Many studies have shown the importance and necessity of internet banking in India and around the world. According to the assessments, there are numerous elements that need to be investigated in order to fully understand the expansion and reach of Internet banking in India. If the government places a high priority on financial inclusion, Internet Banking could be a viable delivery route. As a result, there is a need to close the gap that this study aimed to close. Overall, it was concluded that the review of the national and international literature observed the effective measures to enhance the reach of Internet Banking in India and identified the gap.

Objectives of The Research

The following of the Objectives Framed for the research as follows

- 1. To identify the socio-economic conditions of the Bank customer in Chennai City.
- 2. To analyse the underlying dimensions of Internet Banking (IB) Variables.
- 3. To explore dominant dimensions of significant between Appositeness Guarantees Factor and other factors Convenience Assurance Factor (CAF), Service Utilisation Factor (SUF) and Cost-Effective Factor (CEF).

Analysis and Discussion

Personal Profile of Internet Banking Customers

In any research, the personal profile of the respondent has importance on the subject matter of the study. In this study, primary data collected from the respondents includes various demographic variables such as, age, gender, marital status, educational qualification, monthly family income, bank category, Source of information about Internet Banking services and how often do you use Internet Banking services. The demographic variables are subjected to percentage analysis and descriptive statistics analysis and results are indicates in table.



Table – 1, Socio - Economic Profile of The Respondents

Demographic Profile (N = 115)	Description	Frequency	Percentage
	Male	76	66.1
Gender	Female	39	33.9
Manual atatas	Single	90	78.3
Marital status	Married	25	21.7
Educational Ocalification	UG	78	32.2
Educational Qualification	PG	37	67.8
	Below 25,000	44	38.3
	25000 to 35000	22	19.1
Monthly Family Income	35000 to 45000	32	27.8
	45000 to 60000	9	7.8
	Above 60000	8	7.0
	Public Sector Bank	63	54.8
Bank Category	Private Sector Bank	52	45.2
	News Papers	14	12.2
	Friends	47	40.9
Source of information about Internet Banking	Relatives	5	4.3
services	Magazine	6	5.2
	Bank Employees	10	8.7
	Others	33	28.7
	Every day	18	15.7
	Once in two days	10	8.7
How often do you use Internet Banking	Once in a week	11	9.6
services	Twice a week	10	8.7
	Once in a month	8	7.0
	Whenever required	58	50.4
	Mean	21.843	
Descriptive Statistics (Acc)	Std. Deviation	5.937	
Descriptive Statistics (Age)	Minimum	18	
	Maximum	47	

Table 1 reveals that majority of the respondents are male (66.1%), followed by female (33.9%). Majority of the respondents are Single (78.3%) followed by married (21.7%). Majority of the respondents are UG (67.8%) followed by PG (32.2%). Maximum numbers of respondents are earning monthly family income (Rs.) below 25,000 (38.3%) followed by between 35000 to 45000 (27.8%), Between 25000 to 35000 (19.1%), between 45000 to 60000 (7.8%), Above 60000 (7.0%). Majority of the respondents are using public sector bank (54.8%) followed by private sector bank (45.2%). Majority of the respondents are friends (40.9%) followed by others (28.7%) newspapers (12.2%) bank employees (8.7%) magazine (5.2%) relatives (4.3%). Majority of the respondents are whenever required (50.4%) followed by every day (15.7%) once in a week (9.6%) once in two days (8.7%) twice a week (8.7%) once in a month (7.0%). The average age (Years) of the respondents is 21.843 years with the standard deviation of 5.937 and age ranging from minimum 18 maximum 47 of descriptive statistics.

Exploratory Factor Analysis - Internet Banking (Ibank)

The factor analysis a determination has been made to classify the internet banking of the bank customers. Sixteen variables are mentioned in the questionnaire therefore the data decrease is done through the application of factor analysis by principal component process and the succeeding results are obtained.

Table – 2,Internet Banking (Ibank)

Table – 2,Internet Banking (Ibank)								
Items	Items Mean		Communalities Variance (Eigen Value)		Loadings	Cronbach's Alpha		
	Appositeness Guarantees Factor (AGF)							
IBANK (10)	4.087	0.904	0.748		0.822	0.898		
IBANK (13)	4.191	0.897	0.757		0.723			
IBANK (16)	4.261	0.849	0.781	22.716	0.671			
IBANK (07)	4.078	0.929	0.719	(3.635)	0.662			
IBANK (12)	4.148	0.851	0.652		0.521			
IBANK (04)	4.235	0.841	0.626		0.487			
	Co	onvenien	ce Assurance Fact	or (CAF)	•			
IBANK (02)	4.061	0.976	0.795		0.818			
IBANK (14)	4.087	0.987	0.826		0.761			
IBANK (05)	4.113	0.886	0.763	21.008 (3.361)	0.629	0.902		
IBANK (15)	4.096	0.858	0.754	(= := : =)	0.597			
IBANK (06)	4.217	0.856	0.723		0.531			
		Service	Utilisation Factor	(SUF)				
IBANK (11)	4.113	0.876	0.832	18.434	0.761	0.861		
IBANK (09)	4.148	0.861	0.788	(2.949)	0.701	0.801		



1			•	1	•				
IBANK (01)	4.409	0.847	0.773		0.694				
Cost Effective Factor (CEF)									
IBANK (03)	4.009	0.987	0.773	13.463	0.797	0.705			
IBANK (08)	4.043	0.995	0.789	(2.154)	0.675	0.705			
	Total Variance = 75.620%								
Cronbach's Alpha = 0.950 for 16 itmes									
Kaiser-Meyer-Olkin Measure of Sampling Adequacy. = 0.927 (Bartlett's Test of Sphericity Approx.									
Chi-Square = 1395.126 ; df = 120 ; Sig. = 0.000)									

Table 3 shows that Kaiser-Meyer-Olkin Measure of Sampling Adequacy is 0.927, Bartlett's Test of Sphericity with approximate chi square value 1395.126, df = 120 and p = 0.000 are statistically significant at 5 percent level. Therefore, appropriate for exploratory factor analysis and that the 16 items have exhibited the communalities variances from 0.626 to 0.832. In addition, the 16 variables are reduced into 4 predominated groups. It is found that the variable exhibits the total variance 75.620%.

High Mean value of internet banking was recorded for the variable IBANK (04) Mean = (4.235) and lowest standard deviation S. D = (0.841). Followed by IBANK (01) Mean = (4.409), S.D = (0.847); IBANK (16) Mean = (4.261), S.D = (0.849); IBANK (12) Mean = (4.148), S.D = (0.851); IBANK (06) Mean = (4.217), S.D = (0.856); IBANK (15) Mean = (4.096), S.D = (0.858); IBANK (09) Mean = (4.148), S.D = (0.861); IBANK (11) Mean = (4.113), S.D = (0.876); IBANK (05) Mean = (4.113), S.D = (0.886); IBANK (13) Mean = (4.191), S.D = (0.897); IBANK (10) Mean = (4.087), S.D = (0.904); IBANK (07) Mean = (4.078), S.D = (0.929); IBANK (02) Mean = (4.061), S.D = (0.976); IBANK (14) Mean = (4.087), S.D = (0.987); IBANK (03) Mean = (4.009), S.D = (0.987); IBANK (08) Mean = (4.043), S.D = (0.995).

The most dominant factor is factor 1 with the described variance of 22.716 with Eigen value of 3.635 and it has six variables associated to the internet banking such items are "IBANK (10), IBANK (13), IBANK (16), IBANK (07), IBANK (12), IBANK (04)." It has been labelled as "Appositeness Guarantees Factor (AGF)".

Followed dominant factor is factor 2 with the described variance of 21.008 with Eigen value of 3.361 and it has eight variables associated to the internet banking such items are "IBANK (02), IBANK (14), IBANK (05), IBANK (15), IBANK (06)". It has been labelled as "Convenience Assurance Factor (CAF)".

Followed dominant factor is factor 3 with the described variance of 18.434 with Eigen value of 2.949 and it has three variables associated to the internet banking such items are "IBANK (11), IBANK (09), IBANK (01)". It has been labelled as "**Service Utilisation Factor (SUF)**".

Followed dominant factor is factor 4 with the described variance of 13.463 with Eigen value of 2.154 and it has two variables associated to the internet banking such items are "IBANK (03), IBANK (08". It has been labelled as "Cost Effective Factor (CEF)".

Table – 3,Test of Normality And Descriptive Statistics

			,	v	•	Kolmogorov- Smirnova		Shapiro-Wilk	
IBANK	Mean	SD	Variance	Skewness	Kurtosis	Statisti c (df = 115)	Sig.	Statisti c (df = 115)	Sig.
AGF	25.000	4.29198	18.421	-1.546	4.009	0.138	0.000	0.874	0.000
CAF	20.5739	3.87312	15.001	-1.326	2.714	0.145	0.000	0.884	0.000
SUF	12.6696	2.28543	5.223	-1.464	3.253	0.185	0.000	0.844	0.000
CEF	8.0522	1.74136	3.032	-1.309	2.552	0.192	0.000	0.857	0.000
Lilliefors Significance Correction									

The descriptive statistics of higher mean value and lesser standard deviation values are robust in nature and prove that the data is normally distributed among the internet banking of the study area. The Kolmogorov-Smirnova Test of normality and Shapiro-Wilk Test of normality prove that the data is normal and fits for the higher order multivariate analysis. The Mean, Standard Deviation, Variance, Skewness and Kurtosis of internet banking dimensions have normal distribution and reliability in it.

Table - 4, Regression Analysis of Internet Banking

Dependen t Variable	Significant Predictors	Mean (SD)	F- Value	R	\mathbb{R}^2	Adjust ed R ²	B (t- Value)	Sig.
AGF		25.000 (4.291)	79.92 2	0.82 7	0.68 4	0.675		
	CAF	20.573 (3.873)					0.296 (3.284)	0.001*
	SUF	12.669 (2.285)					0.430 (5.077)	0.000*
	CEF	8.052 (1.741)					0.195 (2.672)	0.009*

P Value of >0.05* - (CAF, SUF, CEF all Factor significantly influencing the CAF)

Notes: *Significant @ 5% Level.

Table 4 reveals that R = 0.827, R Square = 0.684, Adjusted R square = 0.675 according to the above. This means that the independent variables of CAF, SUF, and CEF have an influence on the dependent factor of AGF of internet banking customers, and that F-value = 79.922 and P = 0.000 are statistically significant at the 5% level, according to the above table. As a result, it is determined that independent variables are sufficient for the AGF to have exploratory potential of bank customers. The presence of individual impact over the dependent components is indicated by a strong regression fit. The results of



the Coefficients of CAF (t = 3.284, beta value = 0.296, p = 0.001), SUF (t = 5.077, beta value = 0.430, p = 0.000) and CEF (t = 2.672, beta value = 0.195, p = 0.001) are statistically significant at the 5% level, according to the table. As a result, it is concluded that the CAF, SUF and CEF have a favourable and significant influence on bank customers AGF in terms of their internet banking.

Conclusion

To conclude, the bankers failed that to focus the certain group of the society like as income on middle and upper middle, to provide the information relating on IB services for their customers in the developing nation. Also, the banker should be provided the adequate education to their customers about IB facilities. Customers can now access their account and transact sitting at home and office. For banks, internet banking has emerged as strategic source for achieving higher efficiency, faster operational cycle and reduction of various costs by reducing paper-based transactions and labour-intensive techniques with computerized processes. This all lead to higher profitability to banks. The concluded that awareness has significant effect a positively correlated on intention to use of internet banking.

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