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CUSTOMER SATISFACTION TOWARDS MOBILE SERVICES AND MOBILE APPS IN M-COMMERCE - COMPARATIVE STUDY ON SELECTED COMPANIES IN KARNATAKA

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M-commerce, is a concept that involves various applications, latest technologies and services which a accessible from Internet enabled Mobile devices. The concept of M-commerce has taken birth from the traditional commerce, any business transaction whose price or essential terms were negotiated over an online system such as Internet, Extranet, Electronic Data Interchange network, or electronic mail system. Today consumers are not on concerned with earning money but also look at the various aspect of spending it which could make the customer happy and satisfied in their every Mobile service. Wireless technology in the name of mobile has made the day to day affairs of the today's customer smarter, better, faster and reliable with current standard of living. Hence it is stated that the M-commerce is treated as the best solution to the today's generation's demand which offers new services to interact with customs importance along with Network Company's goodwill.

Definition and meaning of M-Commerce

M-commerce is defined as " mobile commerce is the use of information technology & communication technologies for the purpose of mobile integration of different value chains an business processes and for the purpose of management of business relationships". - Webagency



Mobiles and Mobile Apps

"M-Commerce is the use of mobile devices to communicate, inform transact and entertain using test & data via a connection to public % private networks".- Lehman Brothers.

"The use of mobile handheld devices to communicate, interact via an always on high speed connection to the Internet" .- Forrester.

Purpose of the study

Mobile Commerce which was started in 1997 with basic hand set and basic services to customers in the form of making calls, receiving calls, send messages, receive messages reached to the height of having video conference with the help of 3G data and GPRS with the introduction of smart phones in the market at very competitive price by 2015 that is today...

Mobile commerce gradually claimed the ladder and explode the potential of mobile market through mobile iphone A THE KONGII DECIONAL FOLICATIONAL AN

manufactures such as Nokia, Motorola, Eriksson Qualcomm are working which carries AT&T wireless as sprint to develop WAP-enabled Smartphone, which offers fa e-Mail and phone capabilities. Early 2014, brick and mon business owners and big-box retailers in particular, ha made an effort to take advantage of M-commerce by utilizing mobile capabilities like location-based services barco scanning and push notification to improve the custom experience of shopping in stores.

M-commerce, In today's business the new buzzword Mobile and Mobile services & Mobile Apps in any indus which has given platform by providing voice calling multimedia services, entertainment and other comme transition which are expected to enhance in the rever generation. Few of the important mobile commerce servi are in use by the customer are discussed here

Categories of Mobile applications:

Commerce: Mobile transactions & payments

Education: Mobile classrooms & labs

Traffic Gps: & Traffic advisories.

Healthcare: Accessing & updating patient records

Entertainment: Music\Video downloads & online games

Travel & Ticketing: Travel management

Mobile commerce and Mobile Payment Players

Every analyst or scholars has depicted the definition M-Commerce which gives a wide meaning as its ser states. This research would like to define mobile commer " Master mind commerce " which makes consi comfortable & timeless efforts.

INDO GLOBAL JOURNAL OF COMMERCE AND ECONOMICS ISSN NO. 2393 - 9796 | VOL. - Z | ISSUE - S | SEPTEMBER ZOIS Limiting Factors M-Commerce Size: Small size of Smanphone's wall powerful hardware and display interface ther Mobile device have storage capacity Complex application. Mobile des complex applications. Mobile *H*etwork operator Importance of the study Provider. device (Cus incus In the world, M- commerce in many home very popular. The emergence of the technology might be considered to be the t mobile commerce in all the countries pinancia! acceptance of M-commerce technology is a Institution The services which are available on the w mush used by the youth, it the one of the conbe user universally by any age group of people Services available through M-Commerce Commente Attempt to explore modern and easy burn Objectives of research work E-Mading sanking The objective of this study is to find are services influencing the customers' satisfaction Mobile comparative study on Airtel Network and Biv. Internet towards using Mobile commerce today To assess the customer satisfaction to Messaging tearning Mobile Services To assess the customer satisfaction toward Mobile Services Entertainme Hypothesis: HI: " There is a positive association best Mobile Internet services Mobile services and Mobile Commerce" Criteria for choosing M-Commerce Services/Products H2: "There is a positive association between Limited but precise choice Mobile services and Mobile commerce Predictable availability. Scope of the Research: Does not require lengthy & depth decision making To conduct this research the target popular mobile service users who are Post gradues Convenience, Reasons for M-Commerce Success using GSM technology Affordability and personalization of mobile devices savvies' Geographical area targeted was South Doing things anytime & anywhere sample size of 40 Mobile service Mobile internet connectivity Mobile services and Mobile Apps Mobile payment gives best results than traditional Survey has been done with questionnain open-end and closed ended questions Security through GSM\GPRS\GPS Bridging the gap between E-commerce & conventional Research Methodology Descriptive Research, Data collection began by analyzing Mobile phone service represent the formal bridge for the THE KONGU REGIONAL EDUCA

satisfaction towards the mobile basic services and Mobile satisfaction to services and Mobile satisfaction to services and Mobile The process of employing a factor analysis technique to Apps. Apps. The process data is discussed thoroughly. After elicit essential customer data were collected by elicit essential customer data were collected by conducting that, initial customs with mobile phone uses that, initial group sessions with mobile phone users and by objective group interviews. The processes of designing objective group. The processes of designing, testing, conducting interviews instrument and its footage. conducting the survey instrument and its factors will be and assessing the negative through the pilot study stand and assessing through the pilot study stage. Additional experimented through the pilot study stage. Additional experimented experimented about population size, sample size, scale design, information's about populations will be provided as a scale design, information will be provided as a scale design, in the provided as a scale design, and it is a scale design, in the provided as a scale design, in the provided as a scale design, and it is a scale desig and related ethical considerations will be provided.

In order to know the respondents intention to use M-Commerce basic services and Mobile Apps survey was administered through questionnaire. On the basis of review of administrature the questionnaire for the research was designed and pilot testing was done with a sample of 40 postgraduates commerce students. Few modifications in terminology of statements & Clarity were carried out after pilot study.

Data has been gathered through the primary & Secondary Secondary information is gathered through the information already available in the continent sources like journals, books, magazine and very important are websites. Company profile and Broachers especially Airtel and BSNL Information also gathered from commercial service office, Internet, Books, Journals and news papers.

Primary data is collected based on the simple questionnaire which provided a brief description of various Mobile services and Mobile Apps and respondents were given introduction about the concept while preparing the questionnaire researcher also considered the variable applied in the research before framing questions.

are Government servants, The respondents Businessmen, Homemakers, Students and others of South Bangalore. Random sampling method is adopted to collect the response from the respondent. The sample is drawn from the total population of south Bangalore city of Karnataka state. Respondents are using Mobile Basic Services and Mobile Apps from Airtel and BSNL network service provider to have comparative study.

Mobile basic services like Make calls, receive calls, send messages, receive messages, take picture/videos, use calculator, use timer, attend miss calls and use calendar are categorized here. Selected popular Mobile Apps like Whatsapp, You tube, true caller, Viber, twitter, maps, Flipboard, G-mail app and face book on Mobile are considered on the second objective.

Literature review:

Development of wireless and mobile technologies, Mobile Commerce (M-Commerce) is expected to make substantial impact on the business landscape. The mobile cellular markeat is the fastest growing telecommunication market in terms of subscriber numbers and popularity in In-(Sita Mishra 2014). Research captures users accepta behavior towards M-Commerce by applying theory of plant behavior model developed by Ajzen (1991). Result has F indicated with the help of Hypothesis that attitude perceived behavior control have positive and signifiimpact on individuals intention while subjective norm h positive but not significant impact on intention. Furt intention is found to be significantly and positively relawith behavior.

A study of adoption behavior of mobile banking serv by Indian consumers by Nitin Nayak, Vikas Nath& Na Goel, 2014 had discussed about the Recent innovations in telecommunication which has proved to be a boon for banking sector and its customers. In the article the research has briefed about the Mobile Banking, where custom interact with the bank via mobile phones and banks prothem the various services like short message services, I transfers, account details, issue of cheque book etc. Now could see that the most of the bankers providing the me banking as one of the services. The purpose of the research review paper is to explore the factors that influence adoption behavior of mobile banking services by Inconsumers. Article has also discusses the various steps mobile banking providers should take to increase their me banking services user's database. Here they have discusse detail about the Theory of reasoned action, Technological acceptance model, theory of planned behavior, Innovadiffusion theory discuss the five characteristics of innovaand Unified theory of acceptance and use of technol model.

India's largest E-commerce marketplace snapdeal gets over half of its sales from mobile based transactions from just 5% from the same platform nearly a year ago (Pa Mishra 2014). In a statement, snapdeal said that 45% of transactions seen on mobile now come through the in applications while the remaining 55% come through mobile site. In the article the writer also mentioned Flipkart founder has replied the boom of the nu commerce and this is just the beginning of the deals, still ${\bf r}$ to move on.

Faid Husein Sndreas Gausrab, Eli Bensacı- Universi Ottawa's' has projected that what all could be expected M- commerce in 2002 itself. Now in 2014 all these are real common man:

- Video conferencing.
- Music & video on demand.
- Knowledge based highly personalized marks Full anywhere anytime access to corporate systems

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Location specific information pull.

Global Roaming.

Enhanced end to end security.

Dynamic call screening.

ools of research:

Average, Standard deviation, Factor Analysis, Cronbach's Alpha and Chi-Square test.

limitations of the study

- The geographical area of the study is restricted to south Bangalore city of Karnataka state
- The result of the study is based on the sample survey conducted who are using basic Mobile services and Mobile Apps.
- The results cannot be generalized as the sample size is too small compared to the overall population of South Bangalore city.

Data Analysis and Interpretation

Mobile phone services are treated by each individual in a lifferent way. During this research survey respondents gave he various responses within the question framed. It is an effort o know, whether mobile is just Useful, Essential, Personal, Status Symbol or any other reason to have mobile services in heir life.

Statistics

Mobile phone service	
Mean	2.6486
Std. Deviation	1.33261
Range	4.00
Minimum	1.00
Maximum	5.00

From the above frequency table, we observe that maximum Mobile phone consumers express that mobile phone services are treated as essential which gives prominence of 34.9% and there are few people above which think that mobile is treated as useful device for them which express by presenting 21.4%.

A researcher has devised a nine basic mobile services questionnaire with which hope to measure how consumer feel while using mobile phone services like Make calls, Receive Calls, Send Messages, Take Picture, Use calculator, Use timer, Attend missed calls and Use calendar. Each service was given Mobile phone service

	Frequenc	Percent	Valid Percent
Useful	75	21.4	214
Essential	122	34.9	34.9
Personal	50	14.3	143
Status symbol	57	16.3	16]
Others	46	13.1	131
Total	350	100.0	

5-point liker item from strongly disagree to strong order to understand the question reliability less presented with the result.

Reliability Statistics

Cronbach's	N of	
Alpha	Items	
.884	9	

We can see that Cronbach's alpha is the indicates a high level of internal consistency forces

Researcher wishes to know the ability providers and customer interest in Value provided. There are many mobile network senses the market like Airtel, BSNL, Vodafone, reliance and Others However the importance was gues BSNL networks. Hence it is an effort to compa network services and BSNL network services. In of the network service provider are giving competitions in providing quality service competitive price to satisfy the customer and relong run. Here the services like Internet, Mark Voice Mail, E-Mail and Chat, News, Game Entertainment, Shopping/Purchases are categories added mobile services.

Above table explains about the unlift services by the Mobile service users represents most sort after among the value followed by the Games, E-Mail and Chal. Rules Shopping, Internet, mobile banking and least services 1 service is Voice Mailing.

SCIVICE IS VOICE MAILING.

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Value Added Male Services		Female	Total out of	Percentage of
Internet	120		350	response
Mobile Banking	98	85	205	58.57% 35.4% 6.28%
Voice Mailing		26	124	
E-Mail and Chat	18	4	22	
News	165	152	317	90.57%
Games	64	29	93	26.57%
Roaming	170	172	342	97.71%
facilities	148	128	276	78.86%
Entertainment	175	173	348	99.42%
Shopping	134	129	263	75.14%
Total	175	175	350	100%

In this research the consumer spending on the mobile phone services usage, one need to consider many factors of consumer behavior out of which one of the major factor is its usage and adoption of mobile services in one's life. When it is compared with the mobile networks like Airtel, BSNL, Vodafone, Reliance, Idea and others with Monthly mobile bill amount spent whether prepaid or postpaid. The Choice was spending the mobile bill between Re '0' to above '1000'.

Hypothesis states: "There is no impact of M networks and monthly mobile bill spent by the cons

Alternate Hypothesis states: "There is a Mobile networks and monthly mobile bill speaconsumer"

When compared with Mobile Network rela Monthly mobile bill amount spent on network li-

Count Mobile Network * Monthly mobile bill Cross tabulation

	Monthly mobile bill					Total
Mobile Network	Less than Rs	Rs 100 - 250	Rs 250 - 400	Rs 400 - 1000	Above Rs 1000	
Airtel	13	32	59	59	12	175
100 mg 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6	7	11	6	3	33
BSNL	2	5	5	6	1	19
Idea	5	20	23	21	2	71
Others	1	5	5	3	4	18
Reliance Vodafon	2	14	10	5	3	34
e	29	83	113	100	25	
Total	CONGU REGI	ONAL EDUC.	ATIONAL AN	D RESEARC	H FOUNDATI	ON, SALEM. T

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi- Square	26.788ª	20	.141
Likelihood Ratio	24.434	20	.224
N of Valid Cases	350		

SNL, idea, Reliance, Vodafone and other networks, results re quite clear stating 0.05 significance level. Chi-Square alue is 26.788a with 20 degree of Freedom, p-value 0.141 for ni-square 0.141>0.05, Thus we, accept Null Hypothesis and onclude: "There is impact of Mobile networks and monthly obile bill spent by the consumer"

indings

Using mobile phone services has become quite essentials to consumers rather than any other reason

All most all the mobile phone users use all the basic mobile services whether it is paid or comes free.

Value added services are used by the most of the respondent, only those who feel it is paid or find complicated to use are avoiding the VAS. However if they are trained most of them are ready to adopt the VAS even at the cost.

It is found customer from students to others are adopting the various mobile paid plan, may be prepaid or postpaid which ranges from Rs 0 to Rs 1000 where service provider are not given much importance as ever service provider are providing quality service competition and to be in market for long run

Conclusion.

Telecommunication which is the main communication not only to business but as depends on day to day affairs. Over the research the knowledge, that telecommunication also have major business through providing various services of Basic mobile services and Value added sersal quite accepted by the consumers. However them Brands of Mobile and various Mobile netward Here the question is about the services and the sale which is required for the customer to use with which allows them to download mobile apps, have phones much in use are the smart phone what customer smart to smarter. In this research, the presented the customer mood of using basic productions and the customer mood of using basic productions are supported by the customer mood of using basic productions. service and value added service along with where is the today we could see most of the customer handled through mobile phone by downland mobile apps.