IMPACTOF COVID- 19 PANDEMIC ON DIGITAL PAYMENTS IN INDIA: A STUDY

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ABSTRACT

The aim of this research paper is to study factors impacting digital payments in India during the Covid-19 Pandemic. The paper has used Factor Analysis, Confirmatory Factor Analysis (CFA), Multiple linear Regression, Chi Square Test, T-test, ANOVA and descriptive statistics for the purpose of analysis. The paper is analysed on a sample 300 respondents and data was collected through a structured questionnaire. This study proposed the variables affecting the digital payments during the pandemic after thorough analysis. The study found that there was a spike in various digital payments usage for the customers during the pandemic due to various safety concerns and lockdowns imposed by the government. The results show high usage of various digital banking services by the customers during the pandemic. **Keywords:** Covid-19, Banks, e-services, Payment

INTRODUCTION

The digital program in India is a flagship program of the Indian government where the main vision is to transform India into a digital society and a knowledge economy. The "faceless, paper less, cash less "is one of the important role digital India professes. As a part of the promoting cashless transactions and converting India to a company with less cash, they are

various digital payment methods available. The process of Demonetization is likely to be described as modification of the country's economy.

In this contemporary world, all payments will be made by the contactless cards, (debit cards, credit cards etc.,) mobile phone applications and other electronic means while notes and coins will stand abolished.

Denmark is reportedly in the leading edge in this regard where, under a new proposal paper money transaction will be disallowed, except for now in places like hospitals (because of emergency). The central bank of the country was focused on planning to stop printing currency, and banks will stop carrying cash. In Sweden, it is common policy already for parents to pay pocket moneyto their children electronically.

An environment of pandemic where everyone is paralyzed at home, Covid -19 is further increasing the need for E-cash transactions in the day to day transactions of the customerswhich areBought via video is currently being introduced in the country. This will help to further increase in the electronic transactions. Digital transactions have been increased exploitation this time.

According to the latest data issued from the Reserve Bank of India, the total value of transactions contracted by 46% in April compared to March, driven by the decline in various payment methods, except for direct transfer payments of government sake when using Andhra platforms, which registered a jump of 138%. Transactions and payments through various banking channels such as (checks, NEFT and RTGS, and ATM withdrawal) fell between 26% and 71% in April as compared to March. The sharpest shrinkage was observed in the value of transactions issued by the issuance of checks, which fell 71 % in April to Rs.1.63 lakh crore in April against Rs 5.65 lakh crore in March.

IMPORTANCE OF DIGITAL PAYMENTS

One of the most importance of Digital payments is the seamless experience they provide to the customers, and it reduces the dependency of the customers on cash. Whereas digital payments are fast transfer speed, and the ease of transacting make digital payments a preferred option. The Cost Savings Digital Payments methods will reduce a huge amount of cost that the governments and companies were used to invest.

Accessibility and Convenience for the customers

Using digital payment modes is very easy and convenient. You can make online payments within a second, at any time and at any place. In case of a contactless transaction, you need to levitate your card over the payment equipment. Many People can use it using any mobile device.

Lower Risk by usingdigital payments

The Online payment gateway will securely send the important transaction details. There is no specific time for making an online transaction (24 *7) you can do it whenever you want.

Economic Progressof the customer

The customers were transacting more on online when they see the ease, Convenience and security of the online payments. This means that more and more customers feels comfortable buying online, investing digitally, and transferring funds using electronic devices.

It's easy to trace Everything

The most important thing of using the digital payment modes is that the customer can trace andtally their transactions at any time when he /she were needed just by using their mobile phones.

Future of Digital Payment during the Pandemic

After the impact of COVID-19, the online payment industry is flourishing. The Various digital payment companies in the country are doing their hardest to encourage digital payment methods as there is increase in the competition in the digital market by various companies and theywere trying to attract the customers by providing heavy discounts etc., There is no doubt that the post pandemic era will be the era of digital payment mode in the country based on the statistic of the digital payments in the country.

There are several enterprises that have recommended advanced payment terminals as technology progresses. This payment terminal would make it easier and more convenient for all the retailers to take payments via credit card or thedebit card or various other cash cards which are provided by the banks to the customers and the Customers would now have the option to make deposits in a comfortable manner at any time dependson their Convenience. As a consequence, for small merchants, the digital payment mode will be a seem as a blessing in disguise.

REVIEW OF LITERATURE

- Dr. V.Sornaganesh and Dr. M. Chelladurai (2016) studied about the situation at the time of demonetization. The researcherattempted to study about the demonetization impact on the economy and use of fin-tech during demonetisationThey also analysed about the payment service sector during the demonetization period. The Fast-Moving Consumer Goods have enlarged their credit cycle to address this liquidity situation some provided credit to the distributors through RTGS. Digital Internet is the largest bet in the mobile internet space from the point of view of technology.
- Dr. Zubin thafti, siddharthgupta and Dhaval ariwala (2019) concluded that there have been concerns over the transmission of the virus through the exchange of physical currency and customers will shift to digital payment modes.
- Vivek belgavi and Mihir Gandhi (2019) suggests that the customers will be encouraged to invest in service quality and to increase infrastructure and capacity owing to the expected enlarge in digital transactions going forward during the pandemic.
- G. Sudha and Dr.Thangajesu Sathish (2020) concluded that with the hike in the cases of Covid 19in India the retailers will shift to the digital payment methods as the methodof payment between them.
- G. Sudha, R.Sermakani and Dr.Thangajesu Sathish (2020) examined the traditional system of cash transactions and suggested that system of cash transactions cannot be completely supplant by card or e-payment system.

- R. Sermakani and G. Sudha (2020) concluded that the trust is the main factor affecting user's satisfaction directly or indirectly and it impact on many user's intentions to adopt mobile wallets.
- Gunaseelan&Kesavan, (2020) studied the impact of COVID-19 on the business and economic aspect on different domains such as international trade, gold market, industrial progress, stock market, agriculture etc. the authors also recommend various measures to revamp the national, cultural and economic changes from the COVID-19. The study concluded thatIndian and global economies are hot by the pandemic and are moving towards economically negative growth.
- (Mehta & Johan, 2020) examined the recollection analysis of macro-economic repercussions of the previous pandemics and forecasted the possible effect of COVID-19 on the India economy. They concluded that the lockdown was a major method along with social distancing and self-isolation to contain the spread of the virus.
- Sanjay dhoshi, kunalpandey and Girish Menon(2021)studied the impact of COVID-19 on the digital economy and found that the digital economy has been compounded and multi-faceted. The increased adoption in the short term is likely to accelerate the encourage shift toward digital payments.

Objectives of the Study

- To study the effect of covid-19 on digital banking services in India
- To analyse the factors affecting the digital banking services during the pandemic in India

Research Methodology

The questionnaire was collected with a sample size of 300 respondents selected by applying simple random sampling method. The study takes into accountboth the primary data and secondary data for the purpose of analysis. The secondary data hasbeen collected from varioussources like newspaper, magazines and websites. The collected data are analysed by applying various statistical tools like t-test, Chi square test and ANOVA test, regression and descriptive statistics.

Limitations of the study

- There were only 300 respondents from whom data was collected.
- The Information provided by the respondents was regarding digital payments usage during the pandemic time hence it cannot be generalised during normal conditions.
- In an effort to collect more information with relevant there were more questions which was tedious task for the respondents so, it was one of the limitations for data collection.

Research Hypothesis

- H0 There is no significant correlation in between selected digital banking services provided by the banks along with coved -19 factor.
- H1 There is a significant correlation in between selected digital banking services providedby the banks along with covid -19 factor.
- H2 It is stated that null hypothesis is rejected and the alternative hypothesis is accepted.
- H3 There is a significant difference in between mean of selected digital banking services on the basis of services provided by them.

Data Analysis and Results

Table - IDemographic profile of the respondents

Demographic factors	Options	Frequency	Percentage
Age	Below 20 years	27	8.9
	21 – 30 years	187	62.6
	31 - 40 years	52	16.7
	41 – 50 years	21Ni	7.2
	Above 51 years	13	4.6
Gender	Male	138	47.2
	Female	162	53.6
Marital status	Married	84	28.2
	Unmarred	216	71.8
Education qualification	SSC	4	1.3
	Intermediate	41	13.4
	Graduation	114	38
	Post graduation	123	41
	Others	18	6.3
Occupation	Student	89	29.2
-	Employeed	101	33.1
	Unemployed	46	15.7
	Business	36	11.8
	Others	28	10.2
Income level (monthly)	Below 10000	41	13.4
	10000 - 20000	103	33.8
	20000 - 30000	87	29.8
	30000 - 40000	43	14.4
	40000 - 50000	26	8.5

Interpretation :

the above table shows the demographic profile of the respondents .It is clearly observed that the majority of the respondents (62.6%) belongs to the age group of 21-30 years. Majority of respondents are female (53.6%). Majority of the respondents are unmarried (71.8%)

and majority of the respondents have qualification of graduation and post graduation. (38 & 41 %) and majority of the respondents are employees (33.1 %) and having an income level of 10000-20000(33.8 %)

Table - II -Descriptive statistics

	Ν	MINIMUM	MAXIMUM	MEAN	STANDARD
					DEVIATION
Do you agree that ease of	300	1	5	3.13	1.145
access is an important					
factor for using digital					
payments pre and during					
the pandemic					
Do you think digital	300	1	5	3.27	1.241
payments mode are secure					
Do you agree that its risky	300	1	5	3.54	1.127
to use cash for payments					
during the covid 19					
pandemic due to the health					
reasons					
Use of digital payments is	300	1	5	3.64	1.097
more convenient than cash					
during the pandemic					
Digital payments are	300	1	5	3.49	1.126
widely accepted by the					
merchants					
do you agree that	300	1	5	3.67	1.174
Government has adopted					
appropriate mechanism to					
promote digital payments					
in India					
Digital payments options	300	1	5	3.50	1.167
are reliable for payment					
Do you get enough digital	300	1	5	3.37	1.107
payment options for online					
payment on various					
websites					
The monthly spending has	300	1	5	3.57	1.083
increased during the					
pandemic due to the usage					
of digital payments					

Limit on cash payments	300	1	5	3.57	1.144
by the Indian Government	500	1	5	3.37	1.144
is one of the reason for the					
increased usage of digital					
payments.	300	1	5	3.43	0.977
Enough security checks are put in by various apps	300	1	5	5.45	0.977
used for digital payments.	200	1	5	2.00	1 1 4 0
Local merchants prefer	300	1	5	3.66	1.149
digital payments over cash					
payments during the					
pandemic	200		-	2.00	1.000
Do you agree that increase	300	1	5	3.89	1.000
in digital payments during					
the pandemic is due to					
health and safety reasons.					
Do you agree that dispute	300	1	5	3.64	1.124
resolutions on various					
digital payments apps is					
quick and satisfactory.					
The economic	300	1	5	3.59	1.097
consequences of covid 19					
is likely to be larger and					
grimmer portion than					
demonetization					
The advancement in	300	1	5	3.27	1.149
digital payment					
technology and its					
adoption post					
demonetization makes					
easier for the people					
during the country wise					
lockdown imposed to					
contain the spread of					
virus.					
The standardized and the	300	1	5	3.62	1.124
digital KYC procedures					
for easy access to digital					
payments to customers					
The growing number of	300	1	5	3.89	1.132
payment service providers					
has an impact on the scope					

of consumer using more					
digital payment during the					
pandemic rather than					
using the cash.					
The transparent rules for	300	1	5	3.78	1.144
the duty of care shall					
facilitate the consumers					
use of digital payments.					
The widely used non cash	300	1	5	3.I 49	1.131
payment method should be					
assigned the status of the					
legal tender.					
Do you agree that the	300	1	5	3.71	1.126
banks shall be able to					
develop wide partnership					
for efficient cash					
disbursement to the					
customers.					
Do you agree that	300	1	5	3.68	1.144
concerns over the					
transmission of the virus					
through the exchange of					
physical currency will					
boost digital transactions.					

Interpretation:

From the above descriptive statistic table, it is observed that

- \checkmark Number of statistic is 300
- $\checkmark~$ The minimum and maximum of data collected is 1 to 5 $\,$
- ✓ The mean of all the variables has been set accordingly as average of the data collected from 1 to 5 between 3.00 to 3.99 which remains positive.
- \checkmark The standard deviation of the data remains for every variable.
- ✓ All the standard deviation value in between 0.977 to 1.149

Table - IIIChi square test for demographic factors and Promptness and reliability of payments

Pearson's Chi – square	Value	Df	Asymptotic significance (2-sided)
Age	53.274	15	. 000
Gender	12.699	5	. 012
Marital status	11.797	5	. 038
Education qualification	26.652	20	. 145

Occupation	56.545	25	. 035
Monthly income	21.444	15	. 000

Interpretation:

Table-3 shows that the relationships between the demographic factors and Promptness and reliability of payments for the study. It shows that the age, the calculated Value (0.000) which is lesser than the significant value of 0.05 and the monthly income of the respondents is less than the significant value as a result null hypothesis is rejected and the alternative hypothesis is accepted.

Table – IV - Chi square test for demographic factors and barriers towards the digital transactions by the respondents

Pearson Chi – Square	Value	do	Asymptotic significance (2-sided)
Age	23.442	18	. 000
Gender	6.619	6	. 358
Marital status	3.933	6	. 686
Education qualification	34.050	24	. 084
Occupation	58.682	30	. 001
Monthly income	19.917	18	. 338

Interpretation:

Table IVdepicts the chi square relationship between the demographic factors and barriers towards the digital transactions by the respondents. It may be observed that for age the calculated value (0.000) is lesser than the significance level at 0.05.

Table –V Multiple Linear **Regression**

Model Summary

Model	R	R square	Adjusted R	Std. Error of
			square	the Estimate
1	.617a	. 380	. 364	. 54427

Interpretation:

Table V shows the regression calculations where the value of R i.eregression coefficient 'R' = .617a or 61.7% of relationship exists between the independent variables and dependent variable. The coefficient of determination 'R2'= .380 which shows that 38% of spread of the virus can be controlled by using the online payments by the customer.

Table – VIANOVA

Model	Sum of squares	Do	Mean square	F	Sig.
Regression	53.662	8	6. 708	22.644	.000b
Residual	87.387	295	. 296		
Total	141.048	303			

Interpretation:

Table VI shows F value is 22.644 and is significant because the significance level is =0.000 which is less than P< 0.05. It means that the overall regression model is statistically significant, valid and fit. The regression model shows that all independent variables are explaining that is a positive and significant relationship with dependent variable.

Conclusion

This paperconcludes that there is a positive and significant impact of Covid-19 on digital payment system in India.With the advancement of technology there are abundant digital payment modes in Indiabut majority of the customers prefer selected modes of the digital payment, which might be due to lack of information on digital payment systems in India. Hence the banks should educate and create awareness among the consumers regarding various digital payment facilities available to the customers.

The Government is focusedon moving thecustomers to accept digital payments at present, if it has been madecompulsory before, with social distancing inbetween one person to another and the COVID-19 crises. The offline-to-online transition in payments have been around for a long time, but there has been an increased inthe change of customer behaviour in the latest lock-down scenario attributed to COVID-19. NPCI encouraged and urged all the customers and all service providers of condemnatory services to move to digital payment systems in order to remain secure among the fast movingdigital world. We are starting to see solutions coming up, and Merchants are heading further into the 'physical world.' And they don't have to go online entirely. People will be able to call any messaging mechanism in our use to position orders or communicate by exchanging images, telling them what they want to purchase and eventually digitally the payment will happen. Everyone goes out and picks up the items or delivers them. After the lockdown, it's going to be a phase where we'll still have to be careful and take extra precautions to stay safe until the world has really got rid of this situation. This period is all about creating these solutions and innovating to meet these needs for the public, retailers and businesses.

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