Awareness Of Mobile Payment System Among Consumers : A Comparative Study In Ranchi And Kolkata







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Indian mobile payment landscape has shown incremental growth in the recent past. Government is taking various steps to make India cashless. Recently, our Prime minister has launched BHIM, RuPay and SBI app in Singapore. This can be described as a major step towards internationalization of Indian payment platforms. People also are supporting vision of cashless India as it is evident from the increase in number of mobile payment users in the last three years. Also because smartphone has penetrated so well into the lifestyle of Indians that people now prefer everything that can be done by few taps on their Smartphone. The purpose of this research is to find the difference in level of awareness of Mobile Payment System among consumers of Ranchi and Kolkata. The research used survey method and questionnaire was distributed for primary data collection. Respondent involved customers of Ranchi and Kolkata city. 100 customers from each city were studied.MS Excel was used for data analysis.

Key Words: Adoption, consumer adoption, mobile payment system, Ranchi, Kolkata.

Introduction:

India is becoming one of the world's fastest growing mobile payment market. Number of mobile payment users has increased massively in last three years. With increasing UPI app and payment options in India, there is rapid increase in volume of mobile payment in our country. UPI has revolutionized Indian digital payment scenario attracting more and more users day by day. Only in three years of its launch, UPI based payments have grown tremendously, it has tripled the last years volume every year (according to RBI bulletin). Due to consistent increase in the volume of mobile payment transaction global tech giants such as Google Pay, Paypal and Whatsapp, have entered India's mobile payment market hoping to tap this huge potential. With attractive features such as cashbacks and convenience to use.mobile payment is becoming a good competition to cash and card. People in urban areas have welcomed mobile payment in their lifestyle because of its ease and convenience, and therefore number of users is increasing day by day. So, this research is to find out how well people of Ranchi and Kolkata have adopted mobile payment system in their life. Literature review:

M-payments are financial transactions that are conducted over mobile devices to conclude the exchange of products and services. The specific definition given by Au and Kauffman is: an m-payment is "where a mobile device is used to initiate, authorize and confirm an exchange of financial value in return for goods and services". (Au and Kauffman, 2007, p1). Perceived ease of use (PEOU), perceived enjoyment (PE), perceived usefulness (PU) education level, perceived security (PS) and age influenced the use of mobile payment services in Kenya.

Social influence and gender did not influence the use of mobile payment services in Kenya while perceived usefulness was the strongest factor (David Kabata; 2015). The influence of PEOU and SN differs among the gender of the students, with male students having high perceived ease use (PEOU) over their female counterpart, while social norm (SN) influences female students more than their male counterpart in adopting mobile payment. No significant difference was found in the general adoption of the mobile payment system among gender(AminuHamza&Asadullah Shah; 2014). Factors that influence current users'intentions to use m-payment services are compatibility, subjective norms, perceived trust, and perceived cost. Subjective norms, compatibility, ease of use, and perceived risk influenced potential users'intentions to use m-payment. Subjective norms and perceived risk had a stronger influence on potential users, while perceived cost had a stronger influence on current users, in terms of their intentions to use m-payment services. (Chanchai Phonthanukitithaworn Carmine, Sellitto, and Michelle W.L. Fong; 2016). The relative advantages of mobile payments include time and place independence, availability, possibilities for remote purchases, and queue avoidance. mobile payments was mostly compatible with digital content and service purchases and to complement small value cash payments. Interestingly, the findings suggest that the relative advantages of mobile payments depend on certain situational factors such as lack of other payment methods or urgency (Niina Mallat; 2006). There are two possible solutions to promote the further development of mobile payment: developing a generally accepted mobile payment integrative solution or merge different

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procedures into interoperability system via interconnected participants with high-level protocols and regulation when necessary, because different market participants may have separate benefits (Junying Zhong ;2009).

Objective:

- To find, if there exists, any difference in the level of awareness and usage of Mobile Payment System among consumers of Ranchi and Kolkata.
- To find out, if there exists, any impact of demographic factors (age &gender) on usage mobile payment.

Research methodology:

- Research design- A survey through questionnaire was conducted on customers in Kolkata and Ranchi.
- Research area The study area is customers in Kolkata and Ranchi.
- Target population- The target population of the study was consumers from various areas of Kolkata and Ranchi city.
- Sample size and sampling technique- Sample size is 100 from each city. Convenience sampling was used here.
- Data collection instrument- A questionnaire was used for primary data collection.

Data analysis:

200 responses were used in the analysis. Table 1 shows the detailed demographic profile of the respondents. Majority of respondents were male and most of the respondents were below 40 years. Maximum respondents possess graduate or higher level degree. Most of the respondents earned below Rs. 30,000 monthly. Most of the respondents were student or private employee.

Particulars	Kolkata (in %)	Ranchi (in %)
Gender	Roskata (iii 70)	Rancin (in 70)
a) Male	65	70
b) Female	35	30
Age Group		
a) Below 18yrs	0	1
b) 19 to 25 yrs	40	25
c) 26 to 40 yrs	49	58
d) 41 to 60 yrs	10	14
e) 61 yrs& above	1	2
Educational Qualification		
a) Below intermediate	2	0
b) Intermediate	5	11
c) Graduate	65	52
d) Post graduate & above	28	37
Monthly Income		
a) UptoRs. 10,000	39	29
b) Rs. 10,001 to 30,000	26	30
c) Rs. 30,001 to 50,000	8	22
d) Rs. 50,001 to 1 lakh	17	11
e) Above Rs. 1 lakh	10	8
Profession		
a) Student	25	15
b) Businessman	13	18
c) Professional (lawyer, doctor etc)	10	5
d) Academician	6	6
e) Government employee	8	13
f) Private employee	29	36
g) Housewife	5	4
h) Unemployed	4	3

Table-1: Demographic factors of the population

There is very high level of awareness in both the cities. However, number of males who are unaware about MPS is far greater than females who are not aware.

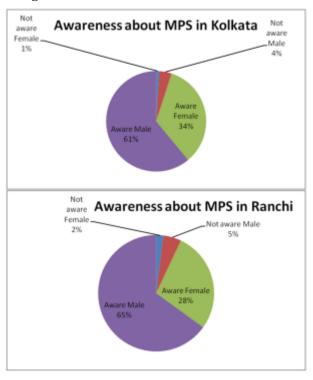
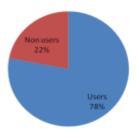


Figure-1: Awareness about MPS in both cities There is not much significant difference in usage of mobile payment in both the cities. 78% of respondents in Ranchi use mobile payment, whereas 80% of respondents in Kolkata use mobile payment system.





Ranchi

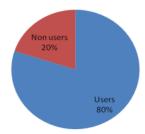


Figure-2: Users distribution in Kolkata and Ranchi

There is no significant difference in adoption of MPS by gender of both the cities. 84% of male in Ranchi are users, whereas only 80% males in Kolkata use it, and 70% of female in Ranchi are users, whereas 76% females in Kolkata use MPS.

Gender	City	Users (in %)	Non users (in %)
Mala	Kolkata	80	20
Male	Ranchi	84	16
F	Kolkata	76	24
Female	Ranchi	70	30

Table-2: Usage based on Gender

There is not much difference in the use of mobile payment in age group category of 19 to 40 years in both the city. But, the 41 to 60 yrs age group of Ranchi, is lagging behind in using MPS Kolkata city. Whereas, people above 61 years don't use mobile payment in both the cities.

Age group	City	Users (in %)	Non users (in %)
Below 18yrs	Kolkata	-	-
	Ranchi	100	0
10 4- 25	Kolkata	80	20
19 to 25 yrs	Ranchi	84	16
26 +- 40	Kolkata	76	24
26 to 40 yrs	Ranchi	73	17
41 4- 60	Kolkata	90	10
41 to 60 yrs	Ranchi	71	29
61 yrs& above	Kolkata	0	100
	Ranchi	0	100

Table-3: Usage based on Age

Daily users in Kolkata are triple from Ranchi, whereas, there is no significant difference in weekly users. Most of the people in Ranchi are monthly user.

Usage frequency	City	Users (in %)
Daily Several Times	Kolkata	22
	Ranchi	6
Daily Once	Kolkata	16
	Ranchi	5
Weekly Once	Kolkata	41
	Ranchi	46
Monthly Once	Kolkata	21
	Ranchi	43

Table-4: Usage frequency of MPS users

There is not much difference in monthly expenditure on MPS in both the cities as monthly expenditure of about 70% of people spend less than Rs. 5,000 on average.

Monthly expenditure by MPS	City	Users (in %)
UptoRs. 2,000	Kolkata	33
	Ranchi	45
Rs. 2,001 to 5,000	Kolkata	36
	Ranchi	25
Rs. 5,001 to 10,000	Kolkata	23
	Ranchi	19
Monthly Rs. 10,000	Kolkata	8
	Ranchi	11

Table-5: Monthly expenditure by MPS users Most of the people in Kolkata have been using mobile payment for more than 2 years, whereas new users' percentage is higher in Ranchi.

Using MPS since	City	Users (in %)
0-1 yr	Kolkata	12
	Ranchi	30
1-2 yrs	Kolkata	40
	Ranchi	37
2-4 yrs	Kolkata	34
	Ranchi	20
Above 4 yrs	Kolkata	14
	Ranchi	13

Table-6: Usage duration

Findings and Conclusion

The finding of research/study indicates that majority of people are aware about MPS and have adopted mobile payment in their lives. Male users are slightly more in number than females in both the cities. The different age groups of people show similar level of adoption in both the cities, except age group of 41-60 years in Ranchi. People above age of 61yrs are not comfortable with mobile payment in both the cities. The application providers should focus on age group of above 40 yrs to try and get more business from them. Most people of Kolkata use mobile payment on daily basis, whereas most people in Ranchi use mobile payment on monthly basis. Though, monthly expenditure via MPS is similar in both the cities. New adoption rate in Ranchi city is higher, indicating new business opportunities and increase in level of daily usage.

Limitations and Area of Further Studies

The scope of this research was limited to customers only so in future this research can be extended to multiple

stakeholders. Secondly comparison between two cities of same country was done, so in future researcher can focus on cities of different countries to see the acceptance globally. Thirdly, this research used Excel so SPSS and other tools could be used by researchers. And lastly, the number of respondent could be increased in future research as to get a clearer picture, here it was limited to 100 respondents from each city.

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