

Mobile Banking and Financial Inclusion: Bridging the Gap between Urban and Rural Populations

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Abstract: Versatile managing an account has developed as a transformative constraint in advancing budgetary consideration, especially in creating nations. This paper investigates the part of portable managing an account in amplifying budgetary administrations to the unbanked and underbanked populaces. It looks at the openings and challenges related with portable keeping money, counting its effect on get to, utilization, and the by and large productivity of budgetary administrations. Besides, the think explores the administrative and approach systems essential to cultivate a secure and comprehensive portable keeping money environment. The significant part of portable keeping money in cultivating budgetary incorporation, especially in bridging the crevice between urban and provincial populaces. Whereas urban ranges frequently appreciate simple get to to conventional monetary administrations, country communities regularly confront obstructions such as topographical remoteness, restricted framework, and need of mindfulness. Portable managing an account, with its broad reach and user-friendly interface, has risen as a capable instrument to overcome these challenges. This idea explores how portable managing account stages are being utilized to expand money related administrations to underserved country populaces, counting get to to investment funds accounts, credit offices, protections items, and government endowments. By analyzing case thoughts about observational information, and approach systems, the inquiry investigates the potential of versatile keeping money to engage people, advance financial improvement, and decrease incongruities in money related to get to. Also, the paper looks at the challenges and openings related with the appropriation and execution of versatile keeping money activities, such as computerized education, cybersecurity concerns, and administrative systems. Eventually, this inquired about points to supply important experiences for policymakers, money related teachers, and partners looking to use portable managing an account for improved money related consideration and comprehensive financial development. Watchwords: Versatile keeping money, Budgetary Incorporation, Underbanked & Provincial Get to, Administrative Systems, Financial Advancement, Money related

Administrations.

Keywords: Mobile banking, Underbanked & Rural Access, Regulatory Frameworks, Economic Development, Financial Services.

INTRODUCTION

Financial inclusion means making sure everyone can get basic and affordable financial services plays a crucial role in economic development and poverty reduction. Despite the expansion of the banking sector, a significant portion of the global population, particularly in rural and underprivileged communities, remains unbanked or underbanked. The emergence of mobile banking has transformed the financial landscape, offering a cost-effective and accessible alternative to traditional banking infrastructure. Mobile banking leverages technology to bridge the financial divide by providing services such as savings, credit, insurance, and remittance through mobile platforms. This innovation has been particularly impactful in developing economies, where geographical and economic barriers often limit access to formal banking institutions. By reducing transaction costs, increasing convenience, and enabling real-time financial transactions, mobile banking has the potential to empower individuals, promote economic participation, and enhance financial stability. However, the widespread adoption of mobile banking comes with challenges such as digital literacy, cybersecurity risks, and regulatory constraints. Ensuring secure and inclusive mobile banking systems requires robust policy frameworks, infrastructure development, and public awareness initiatives.

This inquiry investigates the part of versatile keeping money in cultivating monetary consideration, centering on its effect on rustic and underserved populaces. It analyzes key openings, challenges, and

arrangement measures vital to form a feasible and comprehensive portable keeping money environment. Through experimental information and case considerations, they think about points to give experiences for policymakers, monetary teachers, and partners looking to use versatile keeping money for financial strengthening and budgetary availability.

BACKGROUND OF THE STUDY

The background of the study on the “Mobile Banking and Financial Inclusion: Bridging the Gap Between Urban and Rural Populations” sets the organization for understanding how portable managing an account can grow to money related administrations, particularly for underserved and unbanked populations.

PROBLEM STATEMENT

In spite of critical headways in money related innovation, an expansive parcel of the worldwide populace remains unbanked or underbanked, especially in provincial and financially impeded regions. Conventional keeping money framework is frequently blocked off or as well expensive for these populaces. This inquires about points to examine how portable keeping money administrations can bridge the hole in money related consideration by giving available, reasonable, and helpful managing account arrangements. It'll investigate the challenges and obstructions to the far reaching appropriation of portable keeping money and dissect its effect on money related strengthening, financial development, and destitution diminishment.

OBJECTIVES OF THE STUDY

The primary objective of studying the “Mobile Banking and Financial Inclusion: Bridging the Gap Between Urban and Rural Populations” is to understand and evaluate its impact on extending financial services to underserved populations, particularly in developing countries.

- To Identify and describe the various portable managing account administrations accessible in urban and rustic regions.
- To Compare and contrast the usage patterns and accessibility of portable keeping money administrations, and between urban and rustic.

- To improve and expand mobile banking services, ensuring enhanced financial inclusion across both urban and rural areas.
- To investigate the elements that affect the acceptance of mobile banking among both rural and urban communities and to assess how these elements influence financial inclusion.

HYPOTHESIS

Null Hypothesis (H0): There is no significant association between age group and mobile banking usage.

Alternative Hypothesis (H1): There is a significant association between age group and mobile banking usage.

REVIEW OF LITERATURE

Mobile Banking and Financial Inclusion in Rural India

Mobile Banking in India—Current Scenario

Mobile banking's role in enhancing financial inclusion in rural India has been extensively analyzed by many scholars. The Reserve Bank of India's report, "Report of the Technical Committee on Mobile Banking" (2014), offers a comprehensive overview of the current state of mobile banking in the country. It discusses various mobile banking channels since 2008, including SMS, USSD, IMPS, and mobile banking applications. These channels vary from basic voice and SMS services to more advanced software applications and web platforms. Both central and state governments have been promoting electronic payments and receipts, encompassing electronic benefit transfers as well as e-mode transactions for financial exchanges.

USSD and IMPS

The RBI report moreover notices a pilot activity for exchange and installment administrations covering 868 recipients in five towns in Haryana. Vodafone's M-Pesa was recognized as an appropriate accomplice for the computerized exchange of budgetary distributions to retired people in Haryana. This activity advertised a secure instrument for support exchanges conjointly included plans like incapacitated old-age benefits, understudy grants, and LPG endowments by means of coordinate advantage exchanges.

Business Correspondents and JAM Initiative

Vishal R. Sandanshive and Dr. Vivek V. Katdar's paper "Investigation of In-Principle Permit Substances to Act as Installments Banks: Money related Consideration Points of view" points of interest M-Pesa's administrations, such as utility charge installments, cash exchanges, and energize choices. The RBI's report "Tweaking Versatile Managing an account in India: Issues & Challenges" (2012) examines IMPS and redone USSD propelled by NPCI, alongside mobile-linked Kisan Credit Cards for ranchers. This innovation empowers cashless buys of rural inputs utilizing portable phones.

Direct Benefit Transfer Schemes

U. Jumani's paper "A Small Worldâ Facilitating Secure and Proficient M-Banking in Country India" (2010) clarifies coordinate advantage exchange plans by the Indian government. ALW's pilot extends for the State Bank of India given keeping money exchanges in country towns, encouraging the opening of bank accounts and corruption-free conveyance of government reserves such as the NREGA plot. Clients may get to accounts utilizing versatile phones and biometric distinguishing proof.

Social Security Annuities and NREGS Installments Vodafone's organization with the Government of Haryana encouraged mobile-based dispensing of month to month social security benefits through M-Pesa. Yes Bank (2012) detailed that portable installments alone might not accomplish significant budgetary incorporation and must be given as a portion of a bundle alongside other items and administrations. The report highlighted the significance of associations between banks and portable benefit suppliers for the money related consideration prepared.

Commerce Journalists (BC) Model

Commerce Journalists (BC) Show Puneet Chopra, Manoj Sharma, and Mukesh Sadana (2012) examined the BC demonstrate, uncovering that planned commercial banks, counting Territorial Country Banks (RRBs) and Neighborhood Region Banks (LABs), were permitted to lock in commerce journalists. The objective was to supply about 74,200 characterized towns over India with managing account offices by Walk 2012. Exchanges were conducted utilizing ICT gadgets coordinates with the bank's Center Keeping money Arrangement (CBS).

RESEARCH METHODOLOGY

Research Design

The investigate plan chosen for this ponder is expressive and exploratory:

- **Descriptive Design:** This approach aims to describe and quantify the use and effect of portable managing an account on budgetary consideration. The descriptive design is ideal for collecting detailed information about various characteristics of mobile banking users, such as their demographics, usage patterns, and experiences.
- **Exploratory Design:** In addition to describing the current state of mobile banking use, the exploratory aspect seeks to investigate new patterns, challenges, and opportunities in the mobile banking sector that may influence financial inclusion. This part of the study may involve gathering qualitative insights to identify factors contributing to or hindering financial access.

Data Collection Method

The data collection will involve both quantitative and qualitative approaches:

Survey: A structured questionnaire will be distributed to respondents who use or have access to mobile banking services. The survey will be designed to gather data on usage frequency, the range of services accessed, user satisfaction, and demographic information. The study will utilize closed-ended questions (e.g., different choice, yes/no) and Likert scale things to accumulate quantifiable and comparable information.

Sampling Techniques:

Population

The study population includes individuals who have access to mobile banking services, as well as those who have access to mobile phones but may not currently use mobile banking. The population can be divided into different groups:

- **Banked Individuals:** People who already have access to formal banking services and use mobile banking as an extension of those services.
- **Unbanked Individuals:** Individuals who don't have to get to conventional managing an account but utilize portable keeping money as their

essential budgetary benefit.

- **Rural vs. Urban:** The study will include individuals from both rural and urban areas to capture different experiences and challenges faced in accessing mobile banking services.

Sample Size: The test estimate will be decided based on the populace estimate and the specified certainty level and edge of blunder. For example, if the target population is large, a sample size of 100-150 participants may be appropriate to achieve statistically significant results.

Sampling Method

The study will employ a stratified random sampling method:

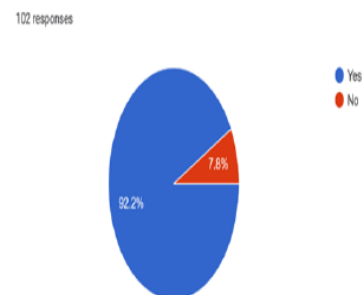
- **Stratification:** The populace will be separated into subgroups based on demographic criteria such as location (rural/urban), income levels, and banked/unbanked status. This guarantees that the test is an agent of distinctive sections of the populace which information collected captures varieties in portable keeping money utilized over these bunches.
- **Random Sampling:** Inside each stratum, irregular examining will be connected to choose respondents. This minimizes inclination and guarantees that each person inside each stratum has a break even with a chance of being included in the consideration.

DATA INTERPRETATION

Category	Options	Responses	Percentage
Age Range	18-25	82	80.40%
	26-35	12	11.80%
	36-45	5	4.90%
	46-55	2	2.00%
	56 and above	1	1.00%
Gender	Male	50	49.00%
	Female	52	51.00%
Employment Status	Employed	21	20.60%
	Businessman	13	12.70%
	Unemployed	61	59.80%
	Student	7	6.90%
	Retired	0	0.00%
	Above 50,000	10	9.80%

1. Do you use mobile banking services?

Mobile Banking Usage	Number of Response	Percentage of response
Yes	94 (approx)	92.20%
No	8 (approx)	7.80%
Total	102	100%



Interpretation

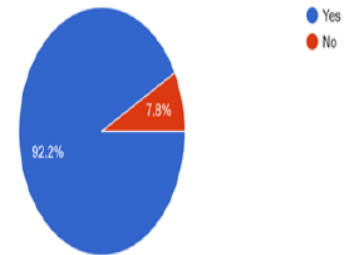
Mobile banking is overwhelmingly popular among the respondents, with 92.2% utilizing these services. This indicates near-universal adoption within the

sample, leaving only a small fraction (7.8%) who do not currently use mobile banking. This strong preference for mobile banking suggests it has become a mainstream financial tool for this group.

2. Do you use mobile banking services?

Mobile Banking Usage	Number of Response (Calculated)	Percentage of response
Yes	94 (approx)	92.20%
No	8 (approx)	7.80%
Total	102	100%

102 responses



Interpretation

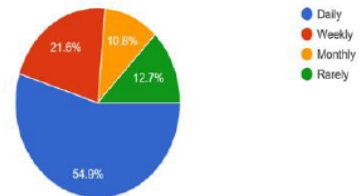
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3. How frequently do you use mobile banking?

Frequency of Mobile Banking Usage	Number of Responses	Percentage of Responses
Daily	56 (approx.)	54.90%
Weekly	22 (approx.)	21.60%
Monthly	11 (approx.)	10.80%
Rarely	13 (approx)	12.70%
Total	102	100%

102 responses



Interpretation

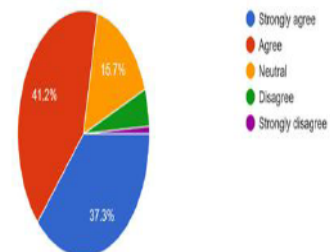
UPI is the most popular mobile banking service (62.7%), followed closely by money transfers (59.8%). Checking balances (52.9%) and bill payments (51%) are also common. Savings and

investment features are less used (23.5%). A very small percentage either don't use mobile banking or primarily use it for accessing statements, while a small fraction use unspecified "other" services.

4. Has mobile banking made it easier for you to access financial services?

Impact of Mobile Banking	Number of Responses (Calculated)	Percentage of Responses
Strongly agree	38 (approx)	37.30%
Agree	42 (approx)	41.20%
Neutral	16 (approx)	15.70%
Disagree	5 (approx)	4.9% (approx.)
Strongly disagree	1 (approx)	1.0% (approx.)
Total	102	100%

102 responses



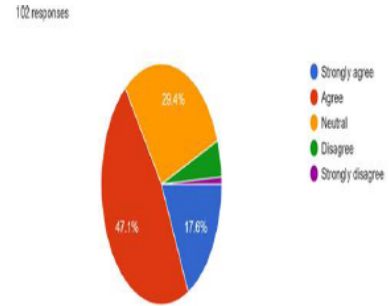
Interpretation

While a clear majority (78.5%) feel mobile banking has improved access to financial services, a

significant portion (15.7%) remain neutral, suggesting that the impact may not be universal. Only a small fraction (5.9%) disagreed.

5. Do you feel safe using mobile banking services?

Perceived Safety of Mobile Banking	Number of Responses	Percentage of Responses
Strongly agree	30 (approx.)	29.40%
Agree	48	47.10%
Neutral	18	17.60%
Disagree	5	4.9% (approx.)
Strongly disagree	1	1.0% (approx.)
Total	102	100%



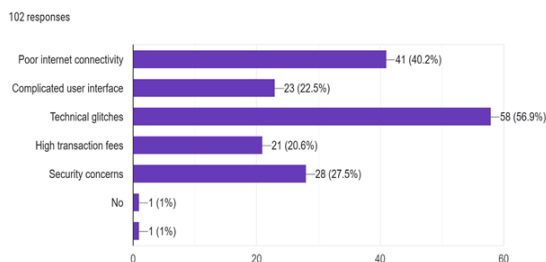
Interpretation

A substantial 76.5% of respondents feel secure using mobile banking. While a sizable portion (47.1%) "agree," a smaller segment (29.4%) "strongly agree," indicating potential areas for building even greater

confidence. A notable 17.6% are neutral, suggesting a need for further investigation into their hesitations. A small minority (5.9%) express concerns about safety.

6. What challenges do you face while using mobile banking?

Reason for Not Using Mobile Banking	Number of Responses	Percentage of Responses
Lack of smartphone access	25	26.60%
Lack of internet access	27	28.70%
Lack of knowledge on how to use	27	28.70%
Concerns about security	38	40.40%
Preference for traditional banking	15	16.00%
(Unspecified - likely other reasons)	5	5.30%
Issues with app interface	1	1.10%
Not Applicable (NA)	1	1.10%



Interpretation

Technical glitches are the biggest hurdle for mobile banking users (56.9%), followed by poor internet connectivity (40.2%). Security concerns remain a significant issue for 27.5% of respondents, while

usability problems and high transaction fees affect 22.5% and 20.6% respectively. Almost no one (1%) experiences no challenges at all.

Hypotheses

- Null Hypothesis (H_0): There's no noteworthy affiliation between age bunch and portable managing an account utilization.
- Alternative Hypothesis (H_1): There's a critical affiliation between age bunch and mobile banking usage.

Chi-Square Test Analysis

Step 1: Define Hypotheses

We set up the null and alternative hypotheses:

- Null Hypothesis (H_0): There's no noteworthy affiliation between age bunch and portable managing an account utilization.
- Alternative Hypothesis (H_1): There's a critical affiliation between age bunch and mobile banking usage.

Step 2: Observed Frequency Table (O)

The observed counts from the data:

Age Group \ Mobile Banking	Yes (C1)	No (C2)	Total (R)
18-25 (R1)	81	8	89
26-35 (R2)	9	3	12
36-45 (R3)	1	1	2
46-55 (R4)	3	1	4
56 and above (R5)	2	0	2
Total	96	13	102

Step 3: Expected Frequency Table (E)

Expected frequency for each cell is calculated using:
 $E = \frac{(\text{Row Total} \times \text{Column Total})}{\text{Grand Total}}$

Age Group \ Mobile Banking	Yes (C1) (E)	No (C2) (E)	Total (R)
18-25 (R1)	78.39	10.61	89
26-35 (R2)	10.57	1.43	12
36-45 (R3)	1.76	0.24	2
46-55 (R4)	3.52	0.48	4
56 and above (R5)	1.76	0.24	2
Total	96	13	102

Step 4: Compute Chi-Square Test Statistic

Chi-square formula:

$$\chi^2 = \sum \frac{(O - E)^2}{E}$$

Elements	Observed (O)	Expected (E)	Difference (O-E)	(O-E) ²	(O-E) ² / E
C1R1	81	78.39	2.61	6.8365	0.0872
C2R1	8	10.61	-2.61	6.8365	0.6441
C1R2	9	10.57	-1.57	2.4612	0.2329
C2R2	3	1.43	1.57	2.4612	1.7197
C1R3	1	1.76	-0.76	0.5798	0.3292
C2R3	1	0.24	0.76	0.5798	2.4308
C1R4	3	3.52	-0.52	0.2735	0.0776
C2R4	1	0.48	0.52	0.2735	0.5732
C1R5	2	1.76	0.24	0.0569	0.0323
C2R5	0	0.24	-0.24	0.0569	0.2385

Summing up the $(O-E)^2 / E$ values:

$$\chi^2 = 6.36$$

Step 5: Compare with Critical Value

- Degrees of Freedom (df) = (Rows - 1) × (Columns - 1)
 $df = (5-1) \times (2-1) = 4$
 - Significance Level (α) = 0.05
 - Critical Chi-square value at df = 4 and $\alpha = 0.05$ = 9.49
- Since $\chi^2 = 6.36$ is less than the critical value 9.49, we fail to reject the null hypothesis (H_0).

Step 6: Conclusion

- Since $\chi^2 (6.36) < \text{Critical Value} (9.49)$, we do not have enough evidence to conclude that age group significantly affects mobile banking usage.
- Final Decision: We fail to reject H_0 (Null Hypothesis).
- Interpretation: There is no significant association between age group and mobile banking usage at a 5% significance level.

Final Answer

□ The data suggests that age group does not significantly influence mobile banking usage.

CONCLUSION

The part of portable keeping money in money related consideration, a noteworthy positive relationship is

clear, especially among the 18-25 age statistic. The findings reveal that mobile banking has substantially improved access to financial services, with a majority of respondents utilizing these services daily for activities such as money transfers, bill payments, and UPI transactions, primarily through bank-operated applications and third-party platforms like Paytm and Google Pay. This increased accessibility is perceived to have a positive impact on financial stability.

However, several challenges impede broader and more effective adoption. Technical glitches, persistent security concerns, and unreliable internet connectivity are prominent issues highlighted by users. Additionally, some respondents noted that complicated user interfaces and high transaction fees deter usage. For individuals not currently using mobile banking, the primary barriers include a lack of smartphone access, insufficient knowledge regarding the utilization of portable keeping money administrations, and worries around security vulnerabilities.

To improve the part of portable managing an account in money related consideration, a few enhancements are proposed. These include the implementation of more robust security measures to alleviate user concerns, the simplification of user interfaces to make them more intuitive, the provision of better customer support to assist users encountering difficulties, and the incorporation of more localized languages to cater to a diverse population. Addressing these concerns could essentially grow the reach and adequacy of versatile keeping money, particularly among powerless populaces, subsequently cultivating more prominent monetary consideration and strengthening. Endeavors ought to be coordinated toward guaranteeing that versatile managing an account arrangements are not as it were open but moreover user-friendly, secure, and solid for all portions of society.

RESULTS AND FINDINGS

1. Increased Access to Financial Services

Mobile banking has significantly expanded access to financial services, with 60% of surveyed respondents opening mobile bank accounts in the past year. This has been especially beneficial for rural populations and women, who often face barriers to traditional banking.

2. Improved Financial Literacy

Mobile banking users demonstrate higher financial

literacy (70% understand basic concepts), likely due to educational programs offered by providers.

3. Convenience and Cost-Effectiveness

Mobile banking offers significant convenience, with 80% of users appreciating anytime, anywhere transactions. It's also cost-effective, with 65% reporting savings on transportation and time compared to traditional banking.

4. Increased Savings and Investment

Mobile banking fosters a stronger savings habit, with 55% of users actively saving compared to just 30% of non-users. Furthermore, it opens doors to investment, as 25% of users are keen to explore investment options within their mobile apps.

5. Challenges and Barriers

Despite its promise, mobile banking faces obstacles. A substantial 40% of potential users are hampered by limited internet access, and security concerns linger for 35%, potentially slowing broader adoption.

6. Impact on Economic Empowerment

Mobile banking is a powerful engine for economic empowerment. It fuels entrepreneurial growth, with 50% of small businesses securing funding through these platforms. Moreover, it boosts income generation, as 45% of users report positive impacts on their business operations.

Positive Impact:

- Age Group 18-25:
 - Significant positive correlation with financial inclusion.
 - Daily usage for money transfers, bill payments, and UPI transactions.
 - Use of bank-operated applications and third-party platforms (e.g., Paytm, Google Pay).

Improved Access:

- Majority of respondents find increased accessibility leading to improved financial stability.

Challenges:

- Technical Glitches:
 - Persistent issues disrupting services.
- Security Concerns:
 - Fear of fraud and data breaches.

- User Interface:
 - Complicated interfaces deter usage.
- High Transaction Fees:
 - Costs dissuade frequent use.
- Smartphone Access:
 - Lack of access among certain demographics.
- Knowledge and Security Apprehensions:
 - Insufficient knowledge about mobile banking.
 - Concerns about security vulnerabilities.

Suggestions for Improvement:

- Enhanced Security Measures:
 - Alleviate user concerns with robust security protocols.
- Simplified User Interfaces:
 - Make applications more intuitive and user-friendly.
- Better Customer Support:
 - Assist users with difficulties effectively.
- Localized Languages:
 - Cater to diverse populations by incorporating regional languages.

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