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Impact of E- Banking in Rural Areas

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ABSTRACT: E-banking has changed the way financial services are offered, as it makes them more accessible, convenient, and relevant, more so in rural areas that may not have traditional banking opportunities at all or limited access to traditional banking opportunities. This study explores the perceptions, benefits, and challenges of e-banking in rural environments. It includes an exploratory mixed-methods approach, using primary data generated from surveys launched in rural contexts, while also drawing on secondary data from international research studies and successful case studies from around the world.

Most survey participants were youth aged (18-20 years), in the lowest income bracket, and had average digital capacity. This resulted in a call for specific and targeted interventions to educate youth across financial and digital literacy. Youth articulated many advantages of e-banking including decreased travel to banks, minimal time for transactions, ease of payments, and a feeling of increased security. Examples, like India's Unified Payments Interface (UPI) and Kenya's M-Pesa indicate mobile-based financial structures can economically empower rural users. But the study also demonstrated serious barriers to e-banking. Digital illiteracy was a meaningful barrier, poor internet connectivity was raised, and trust in digital systems was a significant problem, especially for older users. Many users raised concerns about fraudulent activities, and the interfaces posed some usability problems for many users. These barriers suggest that hospitals and health systems will need to problem-solve for improved user-experience when implementing digital methods, and build trust through education and awareness campaigns.

Global examples like M-Pesa and bKash emphasize the value of working with the community, garnering government support, and a simple design.

KEYWORDS: E-Banking, rural, urban, challenges, digital

I. INTRODUCTION

The banking industry has undergone drastic changes as a result of the digital revolution, of which e-banking is perhaps the most penetrating innovation in the financial industry. E-banking, or electronic banking, refers to the delivery of services through electronic channels, that is to say, through the internet, mobile applications, and other digital platforms. This has translated technology into convenience, speed, and efficiency with which financial transactions can be performed digitally. E-banking is, therefore, the strong arm of a new alternative life that is about to be ushered in for areas or populations that are usually undeserved, especially in rural areas where traditional bank infrastructure is minimal or completely lacking.

In the last few years, leading to the diffusion of e-banking in countryside regions, there has been the emergence of either one or all of the following: mobile phones, mobile networks via mobile phones, and easy digital payment systems. Government initiatives need to recognize the role of fintech innovation and the rise of digital literacy campaigns in this transformation. The example of India's Unified Payments Interface (UPI) and Kenya's M-Pesa shows



how digital finance reinforces the process of economic empowerment and financially inclusive development at the grassroots level.

The benefits e-banking offers, however, are griped with challenges that hinder its adoption in rural areas. Barriers include a lack of relevant internet connection, digital illiteracy, and general mistrust of the processes. The elderly especially do not accept digital banking to many rural users because of fear of fraud, complicated operations, and rude help at times. Such hurdles are a piercing reminder of the digital divide despite technology-gaining access.

This study presents the harms and benefits of e-banking effects in rural settings, considering an in-depth study of users' experiences. It is expected to present the findings on how e-banking is changing the banking practice in rural areas and recommendation on how to tackle the impediment factors. Accordingly, regarding the prospects and constraints of e-banking, this study fits into the overarching goal of inclusive financial development in disadvantaged communities.

II. LITERATURE REVIEW

E-banking has emerged as a cornerstone of modern financial systems, playing a vital role in extending banking services to underserved rural populations. According to the World Bank (2023), e-banking platforms have significantly increased financial transactions in rural areas by addressing geographic and infrastructural challenges. This section delves into the body of research on e-banking, examining its benefits, obstacles, and successful case studies globally. The Impact of E-Banking in Rural Areas of Malappuram District studied by S. Kamala Saravanan and Akhil Fair ooze AM (2023). They stated that E-banking is an effective tool to help financial decisions and can make banking services to the population of rural areas in India. The establishment of e-banking in rural areas has many challenges and they are non-availability of internet connectivity, low literacy levels of the rural people, insufficient infrastructure, and security concerns. But they concluded that E-banking can bring banking services to the population to reduce poverty with the financial inclusion. M. Jeevitha and G. Viji (2022) made study on the effectiveness of e-banking in rural and semi-rural areas of Coimbatore. In their study and attempt has been made to find the effectiveness of E-banking in rural and semirural areas. Their survey in rural and semi-rural areas indicates that the effectiveness of E-banking services. Nithya Ramachandran, Abhijeet Sharad Kelkar (2018), made study on the impact of e-banking on the awareness level of respondents with the use of demographic factors. A detailed survey conducted to find the awareness on the e-banking. It is found that around 31.2% of the rural population have not used the E banking facility. The main reasons for not using the E banking facility are lack of user-friendly bank websites and availability of high-speed internet. From the studies it is observed that the e-banking is still in the implementation stage in the rural areas. Hence, the present study concentrating on the e-banking usefulness in the rural areas.

2.1 Advantages of E-Banking in Rural Areas The primary advantages of e-banking are convenience, cost efficiency, and improved access. Studies indicate that e-banking reduces reliance on physical bank branches, offering users the ability to perform transactions, pay bills, and access financial records from their mobile devices. In India, for example, the UPI system has facilitated billions of transactions, demonstrating the potential of streamlined digital solutions to empower users economically.

2.2 Challenges in Adoption Despite its potential, e-banking adoption in rural areas faces numerous challenges. Key issues include:

- **Digital Illiteracy**: A significant portion of rural populations lack the technical skills to navigate e-banking platforms.
- Infrastructural Gaps: Limited internet penetration and frequent network disruptions hamper access.
- **Trust and Security Concerns**: Rural population have no trust on the digital systems and also fear to use the systems.

Researchers argue that these challenges necessitate a multi-pronged approach, integrating education, infrastructure development, and trust-building initiatives.

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2.3 Global Success Stories Kenya's M-Pesa serves as a benchmark for successful e-banking in rural contexts. Launched in 2007, M-Pesa leverages mobile technology to offer accessible financial services, including savings, credit, and peer-to-peer transfers. Key factors contributing to its success include:

- Community-Centric Models: Engaging local vendors as intermediaries.
- Government Support: Policies encouraging digital financial inclusion.
- User-Friendly Interfaces: Simplified designs tailored for low-literacy users.

Similarly, Bangladesh's bKash and Indonesia's Go Pay highlight the importance of localized strategies in overcoming socio-economic barriers to adoption.

2.4 The Path Forward Building on these insights, it is evident that addressing the challenges in rural e-banking requires collaborative efforts among governments, financial institutions, and technology providers. Strategies must prioritize infrastructure investments, digital literacy programs, and culturally sensitive approaches to foster trust and adoption.

III. METHODOLOGY

Data was collected through an online survey distributed to rural participants. The questionnaire included demographic information, experiences with e-banking, perceived benefits and challenges, and suggestions for improvement. Responses were analysed using descriptive statistics and visualized through charts to identify trends and insights. In addition to survey data, secondary data from financial reports and studies on rural banking were reviewed to support findings.

On the other hand, the collection of secondary data included international case studies, reports on financial inclusion, and academic publications, including looks into the World Bank's report on digital finance for 2023. Also, global examples of India -based UPI system and Kenya -based M-Pesa were analyzed to draw parallels to identify successful strategies for e-banking implementation in rural areas.

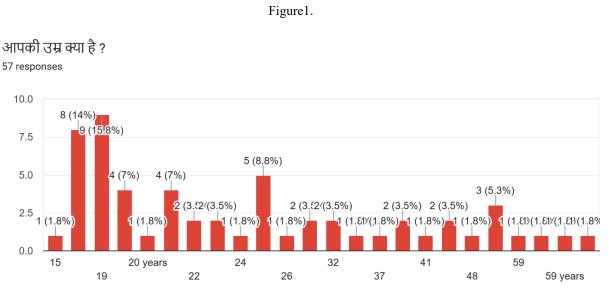
A departure from traditional usage, which can refer to descriptions, provides an analysis of the described data with emphasis on descriptive statistics used to map out or characterize user responses and emerging trends and issues. Qualitative insights from the so-called free responses in the survey were also used to give nuances to personal experiences and emotions of users in analysis discrimination between traditional banking and so-called e-banking. Evidence on aspects how e-banking shows transformation in rural finance systems was collected with this methodology.

IV. DATA ANALYSIS AND FINDINGS

4.1 Demographics The majority of respondents were students aged 18 to 20, and carried out up to an age of 62, with varying levels of education, primarily at the college level. Most respondents reported no monthly income, indicating a reliance on external sources or limited financial independence. This demographic representation highlights the potential for introducing financial literacy programs alongside e-banking services.



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4.2 Advantages of E-Banking: The survey revealed the following benefits:

Reduced need to travel to bank branches

Speed and security in transactions

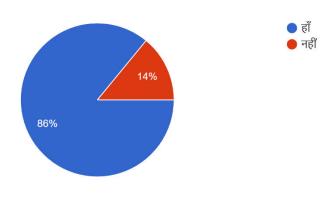
Ease of making online payments

A bar chart summarizing these benefits shows a strong preference for convenience-related advantages. The respondents felt that managing finances through e-banking is a lot more beneficial.

Figure 2

क्या आप ई-बैंकिंग के कारण अपने वित्त प्रबंधन के बारे में अधिक आश्वस्त महसूस करते हैं?

57 responses





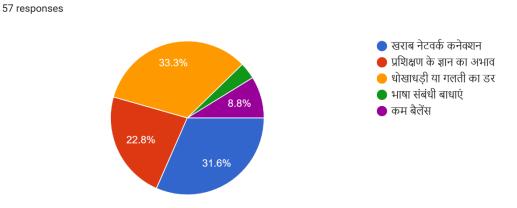
4.3 Challenges Faced:

Although e-banking is beneficial, it still has its challenges:

The most common network connectivity problem was poor network. However, infrequent security concerns were the minority.Furthermore, older users's distrust in digital platforms was regarded as a significant obstacle to the wider adoption of e-banking. The problems mentioned are shown in the pie chart below:

Figure 3.

ई-बैंकिंग का उपयोग करते समय आपको किन चुनौतियों का सामना करना पड़ता है?



4.4 User Confidence and Interface Ease

- More than 80% of the respondents are confident of managing their money through electronic banking (e-banking).
- Many people do not find certain features of the interface user friendly thus a need for the user education or interface design to be improved.

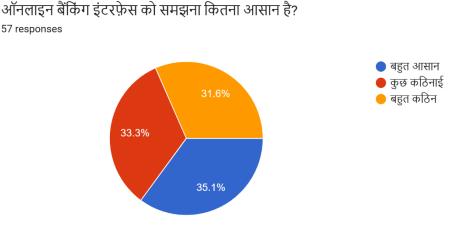
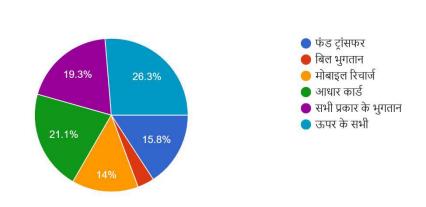


Figure 4.

Younger users reported higher confidence levels compared to older demographics.

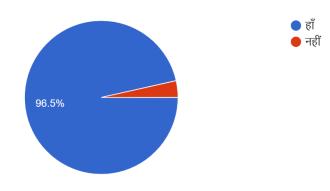
57 responses







ई-बैंकिंग के प्लेटफॉर्म और विशेषताओं के बारे में जागरूकता? 57 responses



V. DISCUSSION

The data indicates that e-banking is making a positive impact by enhancing financial inclusion and convenience for rural users. However, challenges such as network issues and the learning curve for using e-banking interfaces need to be addressed. Ensuring robust infrastructure and conducting awareness campaigns can further enhance the adoption and effectiveness of e-banking.

VI. RECOMMENDATIONS

- Improve Network Infrastructure: Address connectivity issues to ensure seamless transactions.
- Simplify User Interfaces: Enhance usability for less tech-savvy individuals.
- Educational Campaigns: Increase awareness about security best practices and platform features.
- **Targeted Financial Literacy Programs**: Focus on younger users and educate older demographics on the benefits of e-banking.

57 responses



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Feedback Mechanisms: Collect user feedback continuously to adapt services to their needs.

VII. CASE STUDY: E-BANKING SUCCESS IN RURAL KENYA

Kenya's M-Pesa initiative has transformed rural banking by providing accessible mobile money services. Lessons from this success include community-driven awareness campaigns, partnerships with local vendors, and government support for digital infrastructure. Applying similar models in other regions could significantly enhance e-banking adoption.

VIII. CONCLUSION

E-banking is a transformative tool for rural areas, enabling financial inclusion and economic empowerment. Addressing its challenges can unlock its full potential, benefiting both users and service providers. The technology providers play a major role for the sustainable growth and need support for government and financial institutions. Most of the respondents felt that they have knowledge of e-banking, but the internet connectivity is major problem.

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