IEHE The Quest | ISSN: 3048-6491 (Online)
Volume 4 | Issue - 1 | Pages 35-44 | 2025

Impact of Internet Banking Services on Indian Banking System

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Abstract

Internet banking has revolutionized the Indian banking system, emerging as a cornerstone of digital transformation. This paradigm shift has modernized the traditional banking model, empowering customers with efficient, transparent, and convenient financial services. The integration of internet banking has not only enhanced user experience but also contributed significantly to economic growth by facilitating financial inclusion, reducing transaction costs, and streamlining banking operations. With internet penetration expanding rapidly in India, even in semi-urban and rural areas, more people can access banking services than ever before. This inclusivity is a pivotal step toward achieving the government's vision of a Digital India. Customers can perform a myriad of banking tasks, such as fund transfers, bill payments, account management, and investment tracking, from the comfort of their homes, 24/7. This eliminates the need for physical visits to branches, saving time and effort for users while reducing congestion in bank premises. The integration of value-added features has made internet banking indispensable for modern users. Internet banking has redefined the banking landscape in India by offering unparalleled convenience, efficiency, and inclusivity. It has bridged the gap between urban and rural customers, supported economic policies, and embraced sustainability. The study will use an explanatory research design that will explain the impact of Internet Banking Services on the banking system.

Keywords - *Internet Banking Services, Digital Transformation, Digital India, Convenience, Inclusivity, Efficiency.*

Introduction

In Today's scenario, the internet plays a vital role in making the lives of the people easier and empowering them. This paved as an opportunity for the banks to provide efficient Internet Banking Services to their customers. Internet Banking has become a crucial component of the banking system in India. Advanced technology and innovation in financial services have made Internet Banking a key aspect of the banking sector. As technology is advancing rapidly, it also drives significant changes across industries. Before the advent of internet banking, the customers had to physically visit the bank branches to perform transactions and manage their accounts. Today, with the high- speed and affordable internet and time constraint, people are preferring internet banking services rather than visiting the bank physically. Consumers experience various banking features along with advanced options. To open a bank account with zero-balance has become possible with the help of internet banking services. The services are convenient, secure and offer more competitive interest rates to their customers. Internet Banking Services has significantly improved the quality of service and strengthened the banking system of the country.

Internet banking services delivers flexibility of location and 24/7 accessibility. This results in benefits like time efficiency, convenience, and the ability to perform transactions such as online shopping, bill payments, money transfers, and other banking services. Customers can access a variety of online banking services, including depositing money, making payments, checking account balances, requesting cheque books, opening fixed deposit accounts, and downloading bank statements. Internet banking ensures secure transactions through a protected website while offering consumers both place utility and time utility. The Digital India initiative of Government of India has significantly contributed to the growth and adoption of internet banking services across the country. By promoting digitization, enhancing internet connectivity, and encouraging technological innovation, Digital India has made banking more accessible, efficient, and user-friendly for consumers.

Literature Review

1. Preshni Shrivastava and Anusha Khare (2024), this study aims to assess the adoption and implementation of e-banking services by public and private sector banks in India, focusing on how these technologies are embraced by both organizations and consumers. It explores e-commerce practices in the banking sector, analyzes the proportion of the urban population using e-banking for daily transactions, identifies reasons for the acceptance and non-acceptance of e-banking services, and highlights the challenges faced by banks in implementing these services.
2. R. Nalini and S. Yuvasri (2024), this paper examines the impact of digital transformation on customer experience in the banking industry. The paper explores how technologies have improved transaction speed, efficiency, account management processes, and enabled personalized services tailored to individual customer needs. Focusing on respondents from Tirunelveli district who are digital banking users, the study investigates variables like service quality and relationship quality.
3. Surendra Kumar Saha (2023), In the research, reviewed various authors' writings in the field, exploring different types of digital payments, the reasons for their adoption, usage frequency, and the future development of digital payments. It also presents a valuable strategy for the success of the Indian government's Digital India initiative, aiming to transform the nation into a cashless economy. Following demonetization, the rise in digital payments has opened the door for multiple digital wallets to enter India and achieve long-term success. This study seeks to identify the factors that authors have considered in explaining why people have embraced digital payments.
4. Shaheema Hameed and Abhinav Nigam (2023), the study is based on a survey conducted on 272 respondents belonging to Generation Z in India and their perception for AI based internet banking services. The result shows that the usage of AI based internet banking services among Gen Z is low. Though being tech- savvy, Gen Z customers does not benefit in using the services. Despite of appreciating internet banking services, Gen Z prioritizes innovative interpersonal interaction and deep insights into the services.
5. S.S. Vijayvargiya and Shristi Bhowmick (2023), the study seeks to understand the consumer preferences for internet banking services between HDFC bank and Bank of India in Bhopal (M.P.). It aims to assess whether consumers are aware of a wide range of banking products or primarily use basic transaction services. The study reveals several

insights into internet banking preferences and behaviour among users. In the context of internet banking services, consumers prefer private banks i.e., HDFC bank over public bank (BOI) as private banks offer much innovative services than public banks. Suggestions have been derived from consumer opinions to help banks enhance their services and expand their customer base.

6. Karthika M et. al. (2022), the study deals with the development in Fintech as a result of digital transformation. The rapid expansion in Fintech has a significant impact on the banking sector. This revolution has enabled the customers to meet their financial requirements anytime and anywhere, reducing the need to visit the bank physically. The process of banking has turned out to be simpler and more streamlined, as a result of innovation in various financial products.
7. Shivani Inder et. al. (2022), in the study examines the factors determining the adoption of Internet Banking in India. According to the study, internet banking services is offered by most of the banks in India. But the challenges like digital awareness, online frauds, and high rate of interest creates a hesitant behaviour among the customers. the result of the study shows that expected performance, hedonic motivation, and other behavioural aspects such as the attitude, habit, perception, reliability and security play a crucial role in the adoption of internet banking services.
8. Ani Smriti and Rajesh Kumar (2021), conducted a study to highlight the concept of e-banking. The research method involved using secondary data sourced from various databases. The study examines the current status of e-banking in India and explores its challenges and opportunities. E-banking has contributed to increasing customer satisfaction and loyalty within the banking sector. To enhance customer experience, banks should offer convenience by providing services through multiple distribution channels, making online services more accessible for customers.
9. C. Nithya (2021), the study attempts to explore the dynamic impact of transformation in the Indian banking sector as a result of evolving Information Technology on the economy and the customers. The paper explores the concept of electronic banking in India and the development, advantages, challenges and the future of banking in India.
10. Rajat Rajesh Narsapur and Apurva parasar (2020), the paper explores the various types of digital payment systems in India and the growth of transactions through digital channels. It also discusses the impact of the demonetization on the increase in digital payments. The paper further analyzes recent transaction volumes through digital modes and concludes by addressing the challenges and the impact of COVID-19 on digital payment systems.

Objectives

- To obtain information regarding internet banking services in India.
- To understand the impact of internet banking services in transforming the banking system in India.

Research Methodology

The methodology of this study lies within the parameters of explanatory research design that will explain the impact of Internet Banking Services on the banking system. The study is based on secondary data obtained from various websites, journals, articles and conference proceedings.

Impact on Indian banking system:

1. Impact on profitability:

Internet banking plays a significant role in increasing the profitability of the banks in India. It is observed that internet banking has a positive contribution on the overall performance and profitability of the banks in India [Biswajit Ghose and Santi Gopal Maji, 2022].

2. Extensive reach:

The Digital India initiative have been successful in achieving a notable progress in increasing digital access and use by reducing the digital divide and promoting extensive connectivity. The initiative has delivered high- speed internet access to a large portion of the population. These efforts have established a firm structure for the digital future of India by not only improved connectivity but also innovation, e-governance and digital entrepreneurship [PIB Report, 2024]. Internet Banking services have proven to reach every corner of the country. With high speed and affordable internet and user-friendly interface, internet banking services have a wide spread reach among the customers.

3. Cost effectiveness:

Internet banking provides an efficient and cost-effective service channel as compared to the conventional banking methods [RBI Report 2001]. In General, internet banking services helps reducing operational cost and lowers the transaction costs as compared to traditional banking.

4. Enhanced customer relations:

Internet banking offers significant benefits to banks, including cost savings, enhanced customer relationships, and the ability to differentiate their products from competitors. Studies have demonstrated that internet banking services significantly improve the overall customer experience [Rajdeep Jaiswal, 2024]. Internet banking services helps in enhancing relations of the bank's customer. The most important feature of internet banking is that it caters the need of the existing customers and also helps in creating new customer base. Services like 24/7 accessibility, convenience, customized services, improved transparency, ease of transactions, enhanced security, time and cost effectiveness has helped in enhancing customer relations.

5. Impact on image:

Internet banking plays an important role in enhancing the goodwill of a bank. Apart from familiarity of bank's name, internet banking helps in enhancing the image of the bank [P.K. Gupta, 2008]. In general, internet baking helps in building and retaining goodwill by providing improved and innovative services, gain customer trust, act responsibly, follow proper corporate governance guidelines and serve the society positively.

6. Multiple service channels:

Banks are evolving into multi-service platforms, extending their offerings beyond traditional banking to include mobility, e-government, healthcare, and commerce. With the support of regulations and cross-border solutions, they are creating ecosystems that offer clients a unified view of all their accounts, delivering a comprehensive and seamless service experience [Deloitte Digital Banking Maturity, 2022].

7. Competitive advantage

Online banking offers numerous benefits that enhance customer satisfaction by delivering higher-quality service offerings, while also providing banks with a competitive edge over their rivals.

With financial products and services now accessible online, the Internet has become a crucial distribution channel for many banks. To address concerns related to revenue, costs, and competitiveness, banks are significantly increasing their investments in technology [Jayashree Chavan, 2013].

8. Increase in customer base

Internet banking offers numerous advantages over traditional banking methods. It enables banks to expand their customer base, reduce costs, and provide mass customization. It fosters product innovation, enhances marketing and communication strategies, and facilitates the development of non-core businesses. Additionally, internet banking allows banks to offer services without geographical or time limitations, such as viewing account balances, accessing recent transactions, ordering cheque books, and more, delivering greater convenience to customers [Bhupendra Singh Hada, 2020].

Challenges faced by the banking system:

1. Security:

The internet has revolutionized the financial sector, significantly transforming its operations over the past two decades. While internet banking provides convenience for customers, it also requires them to remain vigilant to safeguard their accounts from hackers and cybercriminals. Unfortunately, the security measures implemented by most banking websites are often outdated when compared to the ever-evolving cyber threats. This deviation has made it easier for sensitive financial details to fall under third parties. Despite the presence of various security protocols designed to prevent data breaches, these systems still have vulnerabilities [Leandre Gomes et. al., 2022].

2. Customer trust:

In the context of internet banking services, trust is defined as the confidence consumers have in the service provider's ability to deliver reliable services online. Given the significant investments banks have made in developing internet banking, the success of this service channel relies heavily on consumers' acceptance and ongoing usage [Irfan Bashir and Chendragiri Madhavaiah, 2015]. Customers have issues with trusting internet banking because of the concerns related to security, fraud, and privacy. Inadequate security measures make the customers sceptical towards these services. Furthermore, unfamiliarity with internet banking systems and new technology erodes the confidence of the customers. To address these issues, banks must strengthen security, improve transparency, and educate users on safe banking practices.

3. Customer awareness and Digital divide:

With the rise in technology and banks providing services through various electronic channels, consumers often lack adequate awareness about these services. Ensuring customer awareness should be a top priority for bankers. It is evident that some individuals prefer manual banking, but with proper guidance, they can be encouraged to become potential users of internet banking [Harihara Sudhan Ramakrishnan and Pavithra Varadharajulu, 2012]. The digital revolution in the financial sector has excluded those who are digitally disconnected from its benefits. In India, the 60% rich population are four times more likely to make digital payments compared to the poor 40% [India Inequality Report, 2022].

4. Privacy:

Many customers, including educated ones, are often unaware of privacy policies and fail to manage their ATM PINs and internet banking passwords securely. This represents a significant customer-related issue. On the other hand, internet banking is a frequent target for hackers and other cybercriminals. Understanding the security challenges associated with internet banking is essential for protecting both personal and business accounts from unauthorized access. Internet banks face various types of cyberattacks, employ fraud strategies, and implement prevention methods to enhance security [M. Parameshwari, 2019].

5. Implementation of new technology:

Despite the emergence of a tech-savvy and extensive consumer base in recent years, a combination of industry challenges and unique obstacles continues to hinder the growth of internet banking in India. The slow connectivity speeds significantly diminish the online banking experience for many customers who are eager to adopt such services [Megha Jain et. al., 2011]. Internet banking faces technological implementation failures due to various factors. Poor broadband penetration, especially in rural and semi-urban areas, coupled with outdated hardware and software, hampers seamless online banking experiences. Many banking systems lack scalability, struggling to handle sudden spikes in user traffic, which leads to server crashes and delays. Legacy systems often fail to integrate with modern technology, causing inefficiencies, while weak cybersecurity measures expose data vulnerabilities, undermining customer trust. Frequent technical glitches, inadequate technical support, and inconsistent digital literacy further discourage adoption, particularly in rural areas. Banks face significant challenges in implementing AI and other advanced technologies into their internet banking systems. Limited technical expertise and a shortage of skilled personnel further hinder the adoption of AI-driven solutions. Additionally, concerns about data security and regulatory compliance slow down the implementation process. As a result, banks struggle to leverage AI for personalized services, fraud detection, and operational efficiency, missing opportunities to enhance customer experiences and streamline operations.

6. Failure in corporate governance:

Banks with concentrated ownership structures often face potential conflicts of interest, which can pose challenges to effective governance. Additionally, weak regulatory enforcement highlights the need for consistent and effective implementation of guidelines to ensure compliance. Cultural factors play a significant role, as fostering a strong ethical and compliance culture within banking institutions requires ongoing efforts to overcome resistance to change and ingrained practices. Furthermore, raising awareness among stakeholders, particularly in remote areas, about their rights and responsibilities within the banking system remains a critical priority [Sanchita Jain et. al., 2024].

8. Customer support service:

It can be concluded that 96% of respondents identify limited customer support as the primary issue faced with internet banking [Namitha Krishnan, 2020]. Internet banking has brought great convenience, but a key challenge remains the failure in customer support services. Many users experience frustration due to slow response times, limited availability of support channels, and lack of expertise in resolving complex issues. When customers face urgent problems like fraud or technical glitches, ineffective support can erode trust in the service. To improve user satisfaction, it is essential for banks to enhance the responsiveness, availability, and training of their support teams, ensuring quick and efficient resolutions for all users.

Suggestions

1. Security:

Factors like Reliability, security, cyber–risk, convenience, and innovation, are key factors has a direct influence on preference and adoption of digital banking and customer satisfaction [Hitendra Lachhwani and Archie Kanwar, 2020]. To strengthen security measures in internet banking, banks can implement advanced encryption protocols multi-factor authentication. to safeguard user accounts from unauthorized access, with biometrics such as fingerprint and facial recognition further enhancing login security. AI-driven systems can be deployed to monitor transactions in real-time, instantly flagging and alerting customers about suspicious activities. Regular security audits and penetration tests are essential for identifying and addressing vulnerabilities in banking systems. Additionally, enabling customers to set up customized alerts for transactions, failed login attempts, or unusual geographic access can enhance account monitoring and provide an extra layer of security.

2. Awareness:

Banks must take proactive steps to educate customers about new technologies and services they offer. Extending customer interaction time with bank officials and adopting a friendly approach can significantly enhance customer satisfaction. These efforts will not only help retain existing customers but also attract new ones, ultimately contributing to improved banking services and the overall development of banks in India [Amutha Das, 2016]. To increase customer awareness, banks can run continuous educational campaigns through SMS, social media, and emails to inform customers about safe online banking practices, recognizing phishing attempts, and avoiding unsafe links. Hosting community workshops especially for less tech-savvy populations, can help teach both basic and advanced internet banking functionalities. Additionally, providing multilingual guides and mobile-friendly tutorials ensures accessibility and easy understanding of internet banking systems across diverse demographics.

3. Technology:

Implementing advanced technology allows banks to enhance customer service by offering faster, more convenient, and personalized experiences. Additionally, leveraging cutting-edge technology helps banks reduce operational costs by automating processes and improving overall efficiency. This not only enhances the user experience but also enables banks to maintain a competitive edge in the industry [Megha D. Shetty and Nikhitha M.K., 2022]. Banks can upgrade to cloud-based servers to handle increased user traffic and minimize downtime during peak usage periods. Additionally, replacing or integrating legacy systems with modern technology is crucial for delivering a seamless and efficient user experience. Leveraging AI enables banks to personalize banking experiences, predict customer needs, and identify fraudulent patterns effectively. Additionally, integrating biometric login methods, such as fingerprint or facial recognition, improves both user convenience and security.

4. Corporate governance:

To maintain financial stability, the sector must focus on financial and operational resilience while upholding robust corporate governance. Banks and financial institutions should reinforce their internal defence mechanisms, including assurance functions, and foster a culture of compliance and fairness. This approach is essential for sustaining the trust of both regulators and, more importantly, their customers [RBI Bulletin, 2024]. Promoting ethical practices involves training employees on compliance and ethical standards to foster a culture of accountability. Engaging stakeholders, including customers, employees, and local communities, in discussions on corporate policies and decision-making enhances transparency and inclusivity. Additionally, strengthening internal controls and audit mechanisms helps address conflicts of interest and ensures strict adherence to governance standards.

5. Customer support

The availability of assistance through phone or online representatives demonstrates that customers are highly satisfied with this aspect. Improved communication between the bank and its customers significantly enhances satisfaction levels [Ankit Shah, 2011]. To enhance customer support, banks can establish 24/7 multi-channel assistance through toll-free numbers, chatbots, and live chat. Training support staff to address technical issues and complex queries efficiently ensures effective query resolution. Priority assistance can be implemented for urgent matters, such as fraud resolution or failed transactions, to guarantee quick resolutions. Additionally, providing a comprehensive FAQ section and interactive self-service tools empowers customers to resolve common issues independently.

Conclusion

Internet banking has transformed the Indian banking system, offering a seamless and cost-effective alternative to traditional banking. From enhancing profitability to extending reach, it plays a crucial role in modernizing financial services. Studies confirm that internet banking significantly boosts banks' performance, contributing to higher profitability. Initiatives like Digital India have bridged the digital divide, enabling extensive connectivity and access to high-speed internet, which supports banking services in even remote areas. This infrastructure has empowered banks to expand their customer base and provide 24/7 services with unparalleled convenience and flexibility. The cost-effectiveness of internet banking has helped banks reduce operational and transaction costs while enhancing customer relations through personalized services, transparency, and improved security. These features have built trust and goodwill, solidifying banks' reputations. Furthermore, banks now function as multi-service platforms, integrating mobility, e-governance, and commerce, offering customers a unified experience.

Internet banking also provides banks with a competitive edge by fostering innovation and delivering superior service quality. However, security concerns, customer trust, limited digital literacy, and inadequate infrastructure hinder wider adoption. Many users are unaware of the full range of digital banking services beyond basic transactions. Poor connectivity in rural areas, outdated technology, and insufficient customer support further restrict growth. Privacy issues, slow implementation of advanced technologies, and weak governance add to these challenges. To address these issues, banks must strengthen cybersecurity, improve customer education, and promote awareness of diverse digital services. Enhancing technical infrastructure, providing responsive support, and fostering an ethical compliance culture are crucial. By tackling these challenges and leveraging technology effectively, banks can sustain growth, gain a competitive edge, and meet the evolving needs of customers. Internet banking, thus, continues to reshape the Indian banking landscape, making it more accessible, efficient, and customer-centric.

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