#### THE EVOLUTION AND IMPACT OF DIGITAL BANKING: OPPORTUNITIES, CHALLENGES, AND FUTURE PROSPECTS

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#### ABSTRACT

Digital banking has emerged as a transformative force, reshaping the global financial landscape and redefining how individuals and businesses interact with financial institutions. This paper delves into the evolution of digital banking, tracing its journey from traditional banking enhancements to its current role as a fully integrated digital ecosystem. It explores the opportunities digital banking presents, such as enhanced financial inclusion, personalized customer experiences, and operational efficiencies for financial institutions. Alongside these benefits, the paper examines critical challenges, including cybersecurity threats, regulatory compliance, and the digital divide affecting underserved populations. Furthermore, it investigates the role of emerging technologies like artificial intelligence, blockchain, and central bank digital currencies in shaping the future of digital banking. By analyzing these factors, this study provides insights into the strategies required to harness the full potential of digital banking while addressing its inherent risks. The findings offer a roadmap for stakeholders to navigate the evolving financial landscape responsibly and sustainably.

Keywords: Digital Banking, Global Finance, E-Banking

#### **INTRODUCTION:**

The financial services industry has witnessed a paradigm shift with the advent of digital banking, transforming how individuals and businesses manage, access, and interact with financial resources. Digital banking, often synonymous with online and mobile banking, refers to the provision of banking services through digital platforms, enabling users to conduct transactions, manage accounts, and access financial products with unprecedented convenience and efficiency. This transformation marks a significant departure from traditional brick-and-mortar banking, driven by advancements in technology, changing consumer expectations, and the growing need for financial inclusion.

The evolution of digital banking can be traced back to the late 20th century when banks began offering rudimentary online services. Over time, technological breakthroughs, including the proliferation of the internet, mobile devices, and artificial intelligence, have reshaped the landscape, positioning digital banking as a cornerstone of modern financial ecosystems. Today, digital banking plays a pivotal role in empowering consumers, streamlining operations for financial institutions, and fostering economic growth by bridging the gap between financial services and underserved populations.

However, the rapid growth of digital banking is not without challenges. Cybersecurity threats, regulatory hurdles, and the persistent digital divide raise concerns about the safety, accessibility, and equity of these services. Moreover, the rise of fintech companies and disruptive technologies such as blockchain and central bank digital currencies (CBDCs) have intensified competition and introduced new dimensions to the financial services landscape.

This research paper aims to provide a comprehensive analysis of the evolution and impact of digital banking, examining the opportunities it offers, the challenges it faces, and the prospects for its future development. By exploring these dimensions, the study seeks to contribute to the understanding of digital banking's transformative potential and provide actionable insights for stakeholders in the financial ecosystem, including policymakers, financial institutions, and technology providers. In doing so, it underscores the importance of innovation, security, and inclusivity in shaping the future of banking in an increasingly digital world.

#### **REVIEW OF LITERATURE:**

In this field few studies were conducted in India. The researcher reviewed many researches conducted in India and abroad to find out the correct area to carry out the research work, which will fruitful for the professionals and country.

• Rangan, V. Kasturi and Lee, Katharine L., (2012), "Mobile Banking for the Unbanked ", The case describes in detail the workings of two mobile banking operators in AfricaWIZZIT in South Africa and M-PESA in Kenya. It explores the dimensions of strategy that make for success in the market for the unbanked. It raises questions regarding the portability of the model to other countries and settings.

# **International Journal of Advance and Innovative Research**

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- V. Raja, Joe A. (2012), "Global e-banking scenario and challenges in banking system", This paper is an attempt to explore the various levels of Digital banking services provided by banks using the secondary data. It also compares the traditional banking systems with net banking. It lists out the various advantages of Digital banking and the successful security measures adopted by different banks for secured banking transactions. It also analyzes how E-banking can be useful for banking industry during this global financial melt down.
- Van B., Paul, Veloso, Francisco M. and Oliveira, P., (2012), "Innovation by Users in Emerging Economies: Evidence from Mobile Banking Services", This paper examined the extent to which users in emerging economies innovate, and whether these innovations are meaningful on a global stage. To study this issue, the researcher conducted an empirical investigation into the origin and types of innovations in financial services offered via mobile phones, a global, multi-billion dollar industry where emerging economies play an important role. The researcher used the complete list of mobile financial services, as reported by the GSM Association (GSMA), and collected detailed histories of the development of the services and their innovation process.
- Nel J., Boshoff C., Raleting T., (2012), "Exploiting the technology cluster effect to enhance the adoption of WIG mobile banking among low-income earners" This study investigated the attitude formation of low-income, non-users of Wireless Digital Gateway (WIG) mobile banking, by including use of the Short Message Services (SMS) as a moderator of attitude formation. A non-probability sample of 465 South African non-users of mobile banking was drawn and clustered into High users and Low users of the SMS, based on the average number of text messages sent in a week. The moderating effect of "use of the SMS" was investigated by means of a structural equation modelling multi-group analysis. The findings revealed that the influence of Ease of use on Attitude and of Self-efficacy on Ease of use were stronger for High users and significantly different from Low users, while the opposite was true for the influence of Facilitating conditions on Usefulness.
- Oliveira P., Eric V. H., (2011), "Users as service innovators: The case of banking services" Find that 55% of today's computerized commercial banking services were first developed and implemented by nonbank firms for their own use, and 44% of today's computerized retail banking services were first developed and implemented by individual service users rather than by commercial financial service providers. Manual precursors to these services – manual procedures that carried out functions similar to computerized services in our sample – were almost always developed by users as self-services

# **OBJECTIVES OF THE STUDY:**

#### The main objectives of the study are as follows as,

- To understand the genesis and concept of Digital-Banking.
- To analyse the importance, functions, advantages and limitations of Digital- Banking.
- To explain the different form of Digital-Banking and to analyse the rules & regulation regarding Digital-Banking guided by RBI.
- To highlighting on the security problems of Digital-Banking and how to reduce the security issues with the help of security control tools.
- To analyse the trend of Digital-Banking with the help of primary data.
- To analyse the present Digital-banking scenario concerned with ATM, Digital banking, Mobile banking, credit card-debit card, fund transfer and other Digital-banking services.

# LIMITATION OF STUDY

The major limitations of the study are:

- A small sample size of 100 respondents are taken to primary data analysis. So I cannot draw proper inferences about the respondents from this sample size.
- I have not used modern statistical tools to analysis the data.
- Due to shortage of time I have not been able to make a depth study.
- I could not collect data from out site of MUMBAI.

ISSN 2394 - 7780

Volume 11, Issue 3 (II): July – September 2024

• This study is based on the prevailing respondents' satisfaction. But their satisfaction may change according to time, fashion, need etc.

### **RESEARCH METHEDOLOGY:**

Exploratory Research includes the reviewing and analysis of the articles, Research Papers, Interviews and Other Published Information in order to gain a deeper understanding of the prevailing scenario.

Also, quantitative information, in which survey reports etc done on the basis of Questionnaires was beneficial in the way that it provides a Comparative Insight into The Consumer Perception for Digital Banking in Mumbai and their preferences over it. It is good for examining Consumer Behavior in the Current Trends of Digital Banking.

#### • SECONDARY DATA

The secondary data is readily available data from the published or printed sources. The secondary data is generally used in the case of academic research and to a certain extent in the case of social research. However, commercial research gives requires more of primary data than secondary data. Generally researcher first makes an attempt to obtain information from secondary sources to solve the problem. However, when the secondary data is sufficient and outdated, the researcher resorts primary data. Information is gathered through secondary sources:

- Books
- Digital
- Magazines and Brochures
- Previous reports

# • SAMPLING TECHNIQUES:

The Sampling Technique for this use for the study was Probability Sampling here in a simple random survey was conducted by questioning random people who had a brief idea about Digital Banking.

To analyse the situation of Scope of Digital Banking in Mumbai was taken of Approximately 100 Customers.

# DATA ANALYSIS & INTERPRETATION

#### 1. DISTRIBUTION OF RESPONDENTS ACCORDING TO THEIR GENDER

Customer Mode		
Gender	Percentage	
Male	52 %	
Female	47 %	
Other	1 %	
Total	100	

#### INFERENCE

From the above table, 47 per cent of the respondents are Male, 52 per cent of the respondents are Female and 1 per cent of the respondents are Other

#### 2. DISTRIBUTION OF RESPONDENTS ACCORDING TO THEIR AGE

Age group of customer		
Age class	Percentage	
Below 20 years old	33 %	
20-40 years old	59 %	
40-60 years old	7 %	
Above 60 years old	1 %	
Total	100	

#### **INFERENCE**

From the above table, 59 per cent of the respondents are of 20-40 years old, 7 per cent of the respondents are of 40-60 years old, 1 per cent of the respondents are above 60 years old and the remaining 33 per cent of the respondents are below the age of 20.

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# **3. DISTRIBUTION OF RESPONDENTS ACCORDING TO THEIR AWARENESS ABOUT THE DIGITAL BANKING SERVICES**

Awareness about Digital banking services		
Status	Percentage	
Yes	96 %	
No	4 %	
Maybe	0 %	
Total	100	

#### INFERENCE

From the above table, 96 percent of the respondents are aware of the Digital banking service offered by the bank the remaining 4 percent of respondents are unaware of it.

# 4. DISTRIBUTION OF RESPONDENTS ACCORDING TO THEIR USAGE OF DIGITAL BANKING SERVICES

Awareness about Digital banking services		
Status	Percentage	
Yes	91 %	
No	7 %	
Maybe	2 %	
Total	100	

#### INFERENCE

From the above table, 91 percent of the respondents are using Digital banking service offered by the bank, 7 percent of respondents are not using it and the remaining 2 percent respondents maybe are using or not using Digital banking service.

# 5. DISTRIBUTION OF RESPONDENTS ACCORDING TO WHICH BANK DO THEY HAVE THEIR ACCOUNT

Which bank do they have your account ?		
Banks	Percentage	
Saraswat Bank	20 %	
ICICI Bank	10 %	
Central Bank of India	8 %	
State Bank of India	51 %	
Others	11 %	
Total	100	

#### INFERENCE

From the above table, 20 percent of the respondents are having bank account in Saraswat Bank, 10 percent of the respondents are having bank account in ICICI Bank, 8 percent of the respondents are having of bank account in Central bank of India, 51 per cent of the respondents are having bank account in State Bank of India and the remaining 11 percent of the respondents are having bank accounts in Another Bank

#### **RECOMMENDATIONS SUGGESTIONS:**

#### • **RECOMMENDATIONDS:**

- 1. Technological development has been nothing less than explosion. Banks have been harnessing such technological innovations on one hand and adapting themselves to such changes on the other hand.
- 2. The most significant event has been development of semi-conductor technology, which has resulted in spectacular expansion of automation.

Processing, storage and transmission of information is very essence of banking and financial services.

3. The electronic technology has bought revolutionary changes in these areas. The elimination of paper as medium for processing and storage of transactions / information has been a great event. Large volume of information can be processed, stored and retrieved very economically at terrific speed, which is not possible manual

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- 4. The space required for managing enormous volume of information has been reduced dramatically.
- 5. With the revolution in telecommunication technology, information can be made accessible from remote distance at lightning speed. The final output of information after manipulation and analysis can be printed by printer at high speed directly from computers.
- 6. Thus, the computer now has the ability to retrieve data or update files instantaneously. Subsequently with the development in telecommunication, Local Area Network (LAN)/Wide Area Network (WAN) have been established.

#### • SUGGESTION

- To prevent online banking from remaining an expensive additional channel that does little to retain footloose customers, banks must act quickly.
- The first and most obvious step they should take is to see to it that the basic problem fuelling dissatisfaction has been addressed.
- After repairing this basic deficiency, banks must ensure that their services are competitive.
- Obviously, it should include checking, savings and brokerage services, which anchor customers to the institution.
- In addition, to meet the challenge of online brokerage and other new entrants, banks would need to add "supermarkets" selling products such as mortgage, mutual funds and insurance.

#### **CONCLUSION:**

Technology innovation and fierce competition among existing banks have enable a wide array of banking products and services, being made available to retail and wholesale customer through an electronic distribution channel, collectively referred to as e-banking. The integration of e-banking application with legacy system implies an integrated risk management approach for all banking activities of a banking institution. Latest recommendations of Basel Committee recognize that each bank's risk profile is different and requires a tailored risk mitigation approach appropriate for the scale of e- banking operations, the materiality of the risks present and the willingness and ability of the institution to manage their risks. This implies that a "one size fits all" approach to e-banking risk management issues may not be appropriate.

Banks have traditionally been in the forefront of harnessing technology to improve product and efficiency. Technology is altering the relationships between banks and its internal and external customers. Technology has also eroded the entry barriers faced by many industries. With one time investment, technology has brought about superior products and channel management with a special focus on customer relationship. The incremental costs incurred for expansion and diversification are also more beneficial.

The major driving force behind the rapid spread of e-banking is its acceptance as an extremely cost effective delivery channel. But on the flipside, it is associated with risks such as reputation risk, security risk, cross-border risk and strategic risk, which are unique to e-banking. Banks need to have an effective disaster recovery plan along with comprehensive risk management tool is significant not only to the bank but also to the banking system as a whole. All these issues underscore the importance of sound supervisory policies and high level of international co-operation among the bank regulators. The Basel Committee on banking Supervision has taken the lead in this area through the creation of its Electronic Banking Group – a group comprising 17 central banks and bank supervisory agencies in the late 1999. The main focus of this group has been to develop sound risk management practices.

Digital has created plenty of opportunities for players in the banking sector. While the new entrants have the advantage of latest technology, the goodwill of the established banks gives them a special opportunity to lead the online world. By merely putting existing service online won't help the banks in holding their customer close.

Instead, banks must learn to capitalize their customer's different online financial services relationships. The article "Will Banks Control Online Banking?" focuses on how banks have to reinvent their role to remain as their customers' preferred bank.

Coming home, India is on threshold of a major banking revolution with the invasion of net banking. With the concept of payment gateway coming in, banks are vying with one another for the lion's share in the market.

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Highlighting the benefits of payment gateway over the open-loop payment mechanism, the article "Banking in the Cyber worlds" gives a brief report of the tug of war between the two major Indian e-banking players.

The banking scenario in 2007 could be similar to the one presented above, which requires banks to be proactive and adopt a range of measures to shape their future.

#### **REFENRECES:**

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