

COMPARATIVE STUDY ON ONLINE AND OFFLINE BANKING IN INDIA

Submitted in partial fulfillment of the requirements for the award of
Master of Business Administration degree in Finance and HR

by

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DEPARTMENT OF BUSINESS ADMINISTRATION

SCHOOL OF MANAGEMENT STUDIES

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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DEPARTMENT OF MANAGEMENT STUDIES

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of HARSHINI J (42410157) who carried out the project entitled “COMPARATIVE STUDY ON ONLINE AND OFFLINE BANKING IN INDIA” under my supervision from AUGUST 2023 to DECEMBER 2023.

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I **HARSHINI J (42410157)** hereby declare that the Project Report entitled **COMPARATIVE STUDY ON ONLINE AND OFFLINE BANKING IN INDIA**, done by me under the guidance of **DR. M. DEEPA** is submitted in partial fulfillment of the requirements for the award of Master of Business Administration.

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HARSHINI J

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HARSHINI J

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
	Abstract	
	List of tables	
	List of charts	
1	Introduction 1.1. Introduction 1.2. Statement of the problem 1.3. Objectives of the study 1.4. Need of the study 1.5. Scope of the study 1.6. Limitation of the study	 1 2 2 3 4 4 5
2	REVIEW OF LITERATURE	42
3	RESEARCH METHODOLOGY 3.1. Research design 3.2. Sources of data 3.3. Data collection 3.4. Location and targeted people 3.5. Hypothesis testing 3.6. Limit of the study 3.7. Sample size 3.8. Tool used	 52 52 53 53 53 53 53 53
4	DATA ANALYSIS AND INTERPRETATION	54
5	FINDINGS, SUGGESTIONS AND CONCLUSION 5.1. Findings of the study 5.2. Suggestions 5.3. Conclusion	 75 77 79
	ANNEXURE I – QUESTIONNAIRE	81

LIST OF TABLES

TABLE NO	PARTICULARS	PAGE NO
4.1.1	Age	54
4.1.2	Gender	55
4.1.3	Occupation	56
4.1.4	Which bank do respondents have account	57
4.1.5	Do respondent use online or offline banking	58
4.1.6	What online banking platforms do respondent use	59
4.1.7	What are the main reasons for using online banking	60
4.1.8	How satisfied are respondent with online banking experience	61
4.1.9	Do respondent use offline banking services	62
4.1.10	What are the main reasons for using offline banking	63
4.1.11	How satisfied are respondent with offline banking experience	64
4.1.12	Which mode of banking (online or offline) is more secure?	65
4.1.13	What challenges or concerns do respondent have with online banking	66
4.1.14	What challenges or concerns do respondent have with offline banking	67
4.1.15	Do respondent think Offline banking is more secure in terms of protecting your personal and financial information compared to online banking	68
4.1.16	How often do respondent use online banking services in a typical month	69
4.1.17	How often do respondent use offline banking services in a typical month	70
4.1.18	Which mode of banking (online or offline) is easy to use	72
4.1.19	Do respondent think online banking is better substitute of offline banking system	74

LIST OF CHART

CHARTS NO	PARTICULARS	PAGE NO
4.1.1	Age	54
4.1.2	Gender	55
4.1.3	Occupation	56
4.1.4	Which bank do respondents have account	57
4.1.5	Do respondent use online or offline banking	58
4.1.6	What online banking platforms do respondent use	59
4.1.7	What are the main reasons for using online banking	60
4.1.8	How satisfied are respondent with online banking experience	61
4.1.9	Do respondent use offline banking services	62
4.1.10	What are the main reasons for using offline banking	63
4.1.11	How satisfied are respondent with offline banking experience	64
4.1.12	Which mode of banking (online or offline) is more secure?	65
4.1.13	What challenges or concerns do respondent have with online banking	66
4.1.14	What challenges or concerns do respondent have with offline banking	67
4.1.15	Do respondent think Offline banking is more secure in terms of protecting your personal and financial information compared to online banking	68
4.1.16	How often do respondent use online banking services in a typical month	69
4.1.17	How often do respondent use offline banking services in a typical month	70
4.1.18	Which mode of banking (online or offline) is easy to use	72
4.1.19	Do respondent think online banking is better substitute of offline banking system	74

ABSTRACT

The banking sector in India has undergone significant transformation with the advent of technology, leading to the coexistence of traditional offline banking and modern online banking. This abstract provides an overview and comparative analysis of online and offline banking in India, highlighting their evolution, benefits, challenges, and the changing landscape of banking services in the digital age.

Online banking, enabled by the internet and mobile technologies, allows customers to access and manage their financial transactions anytime, anywhere. It offers a wide array of services, including fund transfers, bill payments, account management, investment tracking, and loan applications. Online banking has gained immense popularity due to its convenience, speed, and enhanced user experience. Additionally, the rise of digital wallets and payment gateways has further facilitated digital transactions and financial inclusivity.

On the other hand, offline or traditional banking involves physical visits to bank branches or ATMs for conducting transactions and availing banking services. This method has been prevalent for decades and continues to serve a significant portion of the population, especially in rural and remote areas with limited internet connectivity. Offline banking offers face-to-face interactions, personalized assistance, and a sense of security for customers.

The coexistence of online and offline banking in India has resulted in a dual banking environment. While online banking offers convenience and efficiency, offline banking ensures a personal touch and caters to individuals who prefer traditional banking methods. However, challenges such as cybersecurity threats, digital literacy, and the need for a robust regulatory framework persist in the online banking sphere.

The evolution of banking in India is marked by a shift towards a more digital and customer-centric approach. The banking sector is continuously adapting to technological advancements to provide seamless and secure services. Finding the right balance between online and offline banking is crucial to ensure financial inclusivity and meet the diverse needs of a rapidly evolving society.

COMPARITIVE STUDY ON ONLINE AND OFFLINE BANKING IN INDIA

CHAPTER 1

1.1 INTRODUCTION

Banking is a critical sector that involves the handling of financial transactions, loans, investments, and other financial services. It serves as the backbone of the economy by facilitating the flow of money, managing savings and investments, and supporting various economic activities. In India, the banking sector has evolved significantly over the years, adapting to technological advancements and regulatory changes.

Online and offline banking are two fundamental approaches to banking services in India, each catering to distinct customer needs and preferences. In recent years, the advent and rapid development of technology have significantly impacted the banking sector, leading to a transformation in the way individuals and businesses manage their finances.

ONLINE BANKING IN INDIA:

Online banking, also known as internet banking or e-banking, refers to the provision of banking services over the internet. In India, online banking has gained immense popularity due to its convenience, accessibility, and time-efficiency. Customers can access their bank accounts, conduct transactions, pay bills, check balances, apply for loans, and perform various financial activities through secure banking websites or mobile applications provided by their respective banks.

ONLINE BANKING IN INDIA:

Offline banking refers to traditional banking methods that involve physical interaction between customers and bank representatives. This approach includes visiting bank branches, using ATMs, and conducting transactions through telephone banking.

Both online and offline banking play crucial roles in the Indian banking landscape, offering customers a choice based on their preferences and requirements. The integration of online and offline services ensures a comprehensive banking experience, catering to the diverse needs of the population.

1.2 STATEMENT OF THE STUDY

The study of comparative analysis of online and offline banking in India.

1.3 OBJECTIVES OF THE STUDY

Accessibility and Convenience:

Compare the ease of access and convenience provided by online and offline banking, considering factors such as hours of operation, location, and availability of services.

Transaction Speed and Efficiency:

Evaluate the speed and efficiency of transactions, including funds transfer, bill payments, and account inquiries, comparing the time taken for completion in both online and offline scenarios.

Service Range and Depth:

Analyse the range and depth of services offered, comparing the breadth of services available online (e.g., investment options, account management) with those available offline (e.g., personalized consultation, specialized financial products).

Customer Interaction and Support:

Assess the quality of customer interaction and support provided in both online and offline environments, considering factors such as personalized assistance, responsiveness, and problem resolution.

Security and Privacy:

Compare the security measures and privacy protocols of online and offline banking to determine the level of protection against fraud, unauthorized access, and data breaches.

Cost-Efficiency:

Evaluate the cost-effectiveness of online and offline banking for both the customer and the bank, considering factors such as operational costs, transaction fees, and overhead expenses.

Customer Preferences and Satisfaction:

Gather feedback from customers regarding their preferences for online or offline banking, and analyse their levels of satisfaction based on user experience, interface ease, and overall convenience.

Digital Literacy and Accessibility:

Consider the digital literacy levels and accessibility of customers, comparing how well each banking mode caters to different demographics and their technological capabilities.

Redundancy and Reliability:

Assess the redundancy and reliability of both online and offline banking systems, including backup mechanisms, uptime, and availability during peak usage times or in case of technical failures.

Regulatory Compliance:

Evaluate the compliance of online and offline banking with relevant legal and regulatory requirements, ensuring adherence to industry standards and best practices.

Trends and Future Prospects:

Analyse emerging trends in online and offline banking and their potential impact on the banking industry, considering factors such as technological advancements, customer behaviour shifts, and evolving regulatory frameworks.

1.4 NEED FOR STUDY

- Studying online and offline banking helps to get more things about banking.
- To Understand and identify the problems and overcoming the problems.
- Analysis which is best whether online banking and offline banking.
- This study helps to improve overall banking effectiveness.

1.5 SCOPE

- Comparative studies on online and offline banking in India can provide valuable insights into the advantages, challenges, and trends associated with these two modes of banking. The scope of such a study can encompass various aspects related to the functioning, customer experience, security, accessibility, and future prospects of both online and offline banking in the Indian context.
- Here are key areas that could be explored in a comparative study:

Accessibility and Convenience:

- Analyzing the ease of access and convenience provided by online and offline banking. Comparing factors like operating hours, physical branch presence, and availability of services.

Customer Experience:

- Conducting surveys or gathering data on customer satisfaction and preferences in both online and offline banking.
- Studying customer interactions, complaint resolution, and response times.

Security and Privacy:

- Investigating the security measures and protocols in place for online and offline transactions.
- Assessing user perceptions regarding the safety of their financial transactions.

Transaction Efficiency:

- Comparing transaction processing times, including fund transfers, bill payments, and other common banking activities.
- Analyzing potential delays, errors, or issues faced by customers in both online and offline transactions.

Cost and Fees:

- Evaluating the costs associated with transactions, maintenance fees, and other charges in both online and offline banking.
- Investigating the impact of costs on customer usage and preference.

Digital Literacy and Adoption:

- Studying the level of digital literacy among the population and its impact on the adoption of online banking.
- Analyzing initiatives to improve digital literacy and their effectiveness.

Government and Regulatory Policies:

- Exploring the role of government policies and regulations in shaping the landscape of online and offline banking in India. Assessing how regulations influence the growth and adoption of each banking mode.

Technological Advancements and Innovation:

- Investigating technological advancements and innovations driving changes in both online and offline banking. Assessing the impact of emerging technologies like AI, blockchain, or biometrics on the banking sector.

Financial Inclusion:

- Analyzing how online and offline banking contribute to financial inclusion, especially in reaching underserved or remote areas.
- Studying initiatives promoting financial inclusion through both modes.

Future Trends and Prospects:

- Predicting future trends in online and offline banking based on technological advancements, consumer behavior, and regulatory changes.
- Speculating on how the landscape might evolve and what strategies banks may employ to stay competitive.

1.6 LIMITATIONS

Limitations of Online Banking in India:

Internet Connectivity and Infrastructure: Access to stable internet connectivity is essential for online banking. In many parts of India, especially rural and remote areas, internet connectivity can be unreliable or unavailable, limiting access to online banking services.

Digital Literacy:

A significant portion of the Indian population, especially among the elderly and those in rural areas, may not be well-versed with digital technology or lack the necessary skills to use online banking effectively.

Security Concerns:

Online banking is susceptible to various cyber threats, including phishing, hacking, and identity theft. Customers need to be vigilant and adopt security measures to protect their personal and financial information.

Dependency on Electronic Devices:

Online banking requires access to computers, smartphones, or other electronic devices. Individuals who don't own or have limited access to such devices may face difficulties in using online banking services.

Transaction Limits and Charges:

Online transactions often have limits imposed by banks, and exceeding these limits may incur additional charges. This can be a limitation for customers with high transaction requirements.

Limitations of Offline Banking in India:**Limited Accessibility:**

Physical bank branches have specific operating hours and are often located in urban and semi-urban areas. People residing in remote or rural areas may have limited access to banking services due to the lack of nearby branches.

Queue and Waiting Time:

Visiting a physical branch often involves waiting in long queues, especially during peak hours. This can be time-consuming and inconvenient for customers.

Manual Paperwork and Processes:

Offline banking typically involves more paperwork and manual processes, which can be time-consuming and sometimes prone to errors.

Geographical Constraints:

Customers who relocate or travel frequently may face challenges accessing their bank accounts or availing services if their home branch is far away.

Limited Services:

Certain banking services, especially advanced financial products or features, may not be easily accessible or available at all offline branches. Customers may need to visit a larger branch or conduct transactions online.

OTHER NAMES

ONLINE BANKING:

- Internet Banking
- Digital Banking
- Mobile Banking
- E-Banking
- Virtual Banking
- Cyber Banking
- Web Banking
- Electronic Banking
- Remote Banking
- Web-Based Banking
- Online Financial Services
- Interactive Banking
- Telebanking
- Remote Access Banking
- Net Banking

OFFLINE BANK

- In-Person Banking
- Branch Banking
- Conventional Banking
- Brick-and-Mortar Banking
- Traditional Banking
- Face-to-Face Banking
- Manual Banking
- Over-the-Counter Banking
- Physical Banking
- Walk-In Banking

DIFFERENCE BETWEEN ONLINE AND OFFLINE BANKING

Feature	Online Banking	Offline Banking
Access	Accessible through internet and electronic devices	Accessible via physical branches or ATMs
Availability	24/7 availability, no time restrictions	Limited by branch hours and operational schedule
Transactions	Conducted electronically (e.g., transfers, bill payments)	Conducted in person or via ATM with physical presence
Communication	Electronic communication with the bank	In-person communication with bank staff
Services	Wide range of services available, including investments, loans, etc.	Comprehensive services including personalized advice, specialized products, etc.
Speed	Transactions are generally faster and real-time	Transactions may take longer due to paperwork and verification

Feature	Online Banking	Offline Banking
Costs	Often lower transaction fees and costs	May involve fees for certain services, checks, or transactions
Interaction	Limited human interaction; relies on digital interfaces	Extensive human interaction, including face-to-face contact
Customer Service	Customer support primarily via helplines and online chat	Direct customer service available in branches
Documentation	Electronic statements and documents	Paper-based statements and physical documents
Security	Security measures to protect online transactions	Focus on physical security and secure handling of documents
Flexibility	Provides flexibility in managing accounts and transactions	Offers personalized, in-depth services and advice
Learning Curve	Requires basic digital literacy	Accessible to individuals with varying technology comfort levels

Feature	Online Banking	Offline Banking
Accessibility	Accessible to a broad audience, including those in remote areas	Accessible to those with proximity to a physical branch

FEATURES

Key features of online banking in India include:

- **24/7 Accessibility:** Online banking allows customers to access their accounts and perform transactions at any time, providing unparalleled convenience.
- **Fund Transfers:** Customers can transfer funds between their own accounts or to other accounts within the same bank or to accounts in different banks.
- **Bill Payments:** Online banking facilitates the payment of utility bills, insurance premiums, credit card bills, and other expenses electronically.
- **Account Management:** Customers can view account statements, check account balances, monitor transactions, and download account-related information.
- **Mobile Banking:** Banks offer mobile applications that enable users to access banking services through their smartphones, enhancing accessibility and ease of use.
- **Security Measures:** Banks implement various security measures, such as two-factor authentication, encryption, and secure login processes, to ensure the safety of online transactions and protect customer data.

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- **Fund Transfers:** Customers can transfer funds between their own accounts or to other accounts within the same bank or to accounts in different banks.
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Types of Banks:

In India, banks are broadly categorized into two types:

Public Sector Banks (PSBs): These banks are owned and operated by the government of India or a state government. Some prominent PSBs include State Bank of India (SBI), Bank of Baroda, Punjab National Bank (PNB), etc.

Private Sector Banks: These banks are owned and operated by private individuals or corporations. Examples include ICICI Bank, HDFC Bank, Axis Bank, Kotak Mahindra Bank, etc.

SERVICE OFFERED:

Banks in India offer a wide range of services to individuals, businesses, and government entities, including:

Deposits: Banks provide various deposit accounts such as savings accounts, fixed deposits, recurring deposits, and current accounts where individuals and businesses can securely store their money.

Loans and Credit: Banks offer loans and credit facilities for different purposes, such as home loans, car loans, personal loans, business loans, and credit cards.

Investments: Banks offer investment products like mutual funds, insurance, pension funds, and advisory services to help customers grow their wealth.

Payments and Transfers: Banks facilitate fund transfers, bill payments, electronic fund transfers (EFT), and mobile banking, providing convenient ways for customers to manage their finances.

Foreign Exchange and Trade Finance: Banks assist in foreign exchange transactions, trade finance, and forex services for international trade and business activities.

Regulatory Environment:

The Reserve Bank of India (RBI) is the central regulatory authority overseeing the banking sector in India. It formulates monetary policy, regulates and supervises banks, and ensures the stability and integrity of the financial system.

Technological Advancements:

The Indian banking sector has seen a substantial shift towards digitalization and technology integration. Online banking, mobile banking, ATMs, electronic fund transfers, and digital wallets have become integral to modern banking, enhancing convenience and accessibility for customers.

Financial Inclusion:

The Indian government and RBI have focused on promoting financial inclusion to ensure that banking services are accessible to all sections of society, especially in rural and underserved areas. Initiatives like Jan Dhan Yojana and Pradhan Mantri Mudra Yojana aim to provide banking services to the unbanked population.

OTHER FINANCIAL INSTITUTIONS

Banking encompasses various types of financial institutions and services that cater to different needs and preferences of individuals, businesses, and governments.

Here are some types of banking:

Retail Banking:

Also known as consumer banking, it serves individual customers and provides services such as savings accounts, checking accounts, loans, mortgages, credit cards, and basic investment products.

Commercial Banking:

Focuses on serving businesses and corporations by offering a range of financial services, including business loans, credit lines, treasury services, and business accounts.

Investment Banking:

Primarily deals with raising capital for companies, mergers and acquisitions, and providing advisory services for various financial transactions. Investment banks assist in issuing stocks, bonds, and other securities.

Private Banking:

Provides personalized banking services to high-net-worth individuals or affluent clients. Services often include wealth management, investment advice, estate planning, and more tailored solutions.

Corporate Banking:

Serves large corporations and institutions, providing comprehensive financial solutions like loans, cash management, trade finance, and other specialized services to meet the corporate needs.

Online Banking:

Conducts banking activities through digital platforms, allowing customers to access their accounts, transfer funds, pay bills, and perform other banking activities using the internet.

Mobile Banking:

Offers similar services to online banking but through mobile applications, making banking transactions accessible via smartphones and tablets.

Community Banking:

Typically smaller, local banks that focus on serving the needs of a specific geographic community or region. They often prioritize personalized service and community involvement.

Central Banking:

The central bank of a country or region, responsible for formulating and implementing monetary policy, issuing currency, and maintaining financial stability. Examples include the Federal Reserve (USA) and the European Central Bank (Eurozone).

Cooperative Banking:

Operated on a cooperative basis where customers are also owners and share in the decision-making processes. Profits generated by the cooperative bank are shared among the members.

Savings and Loan Associations (S&Ls):

Primarily focus on providing savings accounts and mortgages for individuals to purchase homes.

Credit Unions:

Non-profit financial cooperatives owned and operated by their members, offering services like savings accounts, loans, and other financial products to their members.

Islamic Banking:

Operates according to Islamic principles, avoiding interest-based transactions and adhering to Sharia law. Transactions are structured to comply with Islamic finance principles.

Postal Banking:

Banking services offered through postal systems, typically in countries where the postal service is also authorized to provide financial services such as savings accounts and money transfers.

BANKS IN INDIA

India has a robust banking sector with various types of banks, including public sector banks, private sector banks, foreign banks, cooperative banks, and regional rural banks. Here are examples of some major banks in India:

State Bank of India (SBI): SBI is the largest and oldest public sector bank in India. It offers a wide range of banking and financial services to individuals, businesses, and corporates.

HDFC Bank: HDFC Bank is one of the largest private sector banks in India and provides services such as retail banking, corporate banking, and treasury operations.

ICICI Bank: ICICI Bank is another major private sector bank in India offering retail and corporate banking services, including loans, credit cards, and investment products.

Punjab National Bank (PNB): PNB is one of the prominent public sector banks in India, providing various banking services like retail banking, corporate banking, and international banking.

Bank of Baroda (BOB): Bank of Baroda is a major public sector bank in India offering a range of services, including retail, corporate, and international banking.

Axis Bank: Axis Bank is one of the top private sector banks in India and provides a wide array of banking products and services to retail and corporate customers.

Canara Bank: Canara Bank is a leading public sector bank in India, offering banking services in retail and corporate segments.

IndusInd Bank: IndusInd Bank is a private sector bank known for its retail, corporate, and commercial banking services.

Kotak Mahindra Bank: Kotak Mahindra Bank is a private sector bank offering a range of financial products and services, including personal banking, corporate banking, and wealth management.

Union Bank of India: Union Bank is a major public sector bank that provides retail, corporate, and international banking services.

RBL Bank: RBL Bank is a private sector bank known for its retail and commercial banking services.

IDBI Bank: IDBI Bank is a public sector bank that offers various banking and financial services to individuals, businesses, and industries.

Yes Bank: Yes Bank is a prominent private sector bank in India that provides a range of banking and financial services to retail and corporate customers.

Federal Bank: Federal Bank is a private sector bank offering services such as retail banking, corporate banking, and treasury operations.

South Indian Bank: South Indian Bank is a private sector bank with a strong presence in the southern regions of India, providing various banking services.

IDFC FIRST Bank: IDFC FIRST Bank is a private sector bank offering banking, financial, and investment services.

Bandhan Bank: Bandhan Bank is a private sector bank primarily focused on serving underbanked and underprivileged areas and individuals.

Karur Vysya Bank (KVB): Karur Vysya Bank is a private sector bank with a significant presence in South India, offering a variety of banking services.

Dena Bank: Dena Bank is a public sector bank that was amalgamated with Bank of Baroda in 2019.

Vijaya Bank: Vijaya Bank was a public sector bank that was amalgamated with Bank of Baroda in 2019.

Syndicate Bank: Syndicate Bank was a public sector bank that was amalgamated with Canara Bank in 2020.

UCO Bank: UCO Bank is a public sector bank that offers various banking services to individuals, businesses, and industries.

Nainital Bank: Nainital Bank is a scheduled commercial bank primarily focused on the northern regions of India.

Jammu and Kashmir Bank: Jammu and Kashmir Bank is a public sector bank with a strong presence in the state of Jammu and Kashmir.

Cooperative Banks: Cooperative banks are region-specific and can be found at the state, district, or local levels, providing banking services to their members. Examples include Saraswat Cooperative Bank, Shamrao Vithal Co-operative Bank, and The Gujarat State Co-operative Bank.

Regional Rural Banks (RRBs): RRBs are banks operating at regional levels, catering to rural areas. Examples include Baroda Gujarat Gramin Bank, Prathama Bank, and Kerala Gramin Bank.

Indian Bank: Indian Bank is a public sector bank that offers a range of banking and financial services to individuals and businesses.

Allahabad Bank: Allahabad Bank is a public sector bank that provides various banking services to its customers, including retail and corporate banking.

Central Bank of India: Central Bank of India is one of the oldest and largest public sector banks in India, offering a wide range of banking products and services.

Oriental Bank of Commerce (OBC): Oriental Bank of Commerce, now merged with Punjab National Bank (PNB), was a public sector bank providing retail and commercial banking services.

Punjab & Sind Bank: Punjab & Sind Bank is a government-owned bank that offers banking services primarily in the northern regions of India.

Karnataka Bank: Karnataka Bank is a private sector bank with a strong presence in the southern states of India, offering banking services to retail and corporate customers.

Catholic Syrian Bank (CSB): Catholic Syrian Bank is a private sector bank that provides retail, corporate, and rural banking services.

Indian Overseas Bank (IOB): Indian Overseas Bank is a public sector bank offering a wide range of banking products and services to its customers.

Andhra Bank: Andhra Bank, now merged with Union Bank of India, was a public sector bank that provided banking services across India.

Dombivli Nagari Sahakari Bank (DNS Bank): DNS Bank is a cooperative bank primarily operating in the state of Maharashtra, offering banking services to its members.

NKGSB Cooperative Bank: NKGSB Cooperative Bank is a cooperative bank primarily operating in the states of Maharashtra and Karnataka, providing various banking services.

Baroda Rajasthan Kshetriya Gramin Bank (BRKGB): BRKGB is a regional rural bank primarily serving the state of Rajasthan, offering banking services in rural areas.

Langpi Dehangi Rural Bank (LDRB): LDRB is a regional rural bank primarily serving the state of Assam, offering banking services in rural areas.

PEOPLE INVOLVED IN BANKING:

The banking industry involves a diverse range of professionals who contribute to various aspects of financial services, operations, management, regulation, and customer service. Here are key roles and people involved in the banking sector:

Bank Executives and Management:

Chief Executive Officer (CEO): The top executive responsible for overall strategy, operations, and performance of the bank.

Chief Financial Officer (CFO): Oversees financial planning, budgeting, and financial reporting of the bank.

Chief Risk Officer (CRO): Manages and mitigates risks associated with the bank's operations and financial activities.

Chief Operations Officer (COO): Oversees day-to-day operations and ensures efficiency in processes.

Retail Banking:

Branch Managers: Oversee the daily operations of bank branches and manage customer service.

Customer Service Representatives: Assist customers with inquiries, account management, and problem resolution.

Tellers: Handle cash transactions, deposits, and withdrawals for customers.

Corporate Banking:

Relationship Managers: Manage relationships with corporate clients, understand their financial needs, and provide appropriate banking solutions.

Credit Analysts: Assess the creditworthiness of corporate clients and analyze loan applications.

Investment Banking:

Investment Bankers: Advise companies on financial transactions such as mergers, acquisitions, and IPOs, and help raise capital through various financial instruments.

Financial Analysts: Analyze financial data, market trends, and investment opportunities.

Commercial Banking:

Commercial Lenders: Evaluate loan applications and determine the creditworthiness of businesses applying for loans.

Credit Risk Managers: Manage credit risks associated with commercial lending.

Private Banking and Wealth Management:

Private Bankers: Serve high-net-worth individuals and families, offering personalized financial services and investment advice.

Wealth Advisors: Provide investment, retirement, and financial planning advice to clients.

Operations and Technology:

Operations Managers: Oversee back-office operations, including transaction processing, record-keeping, and regulatory compliance.

Information Technology (IT) Professionals: Manage and maintain the bank's technology infrastructure, including online platforms and security systems.

Risk and Compliance:

Risk Managers: Identify, assess, and mitigate various risks faced by the bank, including credit, market, and operational risks.

Compliance Officers: Ensure the bank adheres to regulatory requirements and industry standards.

Legal and Regulatory Affairs:

General Counsel: Provides legal advice to the bank and ensures compliance with laws and regulations.

Regulatory Affairs Managers: Liaise with regulatory bodies and ensure compliance with regulatory guidelines.

Audit and Internal Controls:

Internal Auditors: Conduct internal audits to ensure adherence to policies, procedures, and regulations.

Compliance Auditors: Ensure compliance with internal policies and external regulations.

The banking industry involves a vast network of professionals with diverse expertise, all working together to ensure the smooth functioning and growth of financial institutions while maintaining regulatory compliance and meeting customer needs.

THINGS INVOLVED IN BANKING**ONLINE**

E-banking, or electronic banking, refers to the provision of traditional banking services through electronic channels such as the internet, mobile applications, ATMs, electronic funds transfers, and more. Here are the key components and elements involved in e-banking:

Online Banking Platforms:

Web-Based Platforms: Secure websites that allow customers to access their accounts, view balances, perform transactions, and manage their finances online.

Mobile Applications: Banking applications available on smartphones and tablets, offering similar functionalities to web-based platforms.

Account Management:

Account Balances and Transactions: Users can view account balances, recent transactions, account statements, and account history online.

Fund Transfers: Transfer funds between accounts, including within the same bank or to external accounts.

Electronic Payments and Transfers:

Bill Payments: Paying bills for utilities, credit cards, loans, and other services electronically through online banking.

Fund Transfers (EFT): Electronic transfer of funds between accounts or to other individuals or businesses.

ATM Services:

Cash Withdrawals: Accessing funds by withdrawing cash from ATMs using a debit or ATM card.

Deposits and Funds Transfers: Depositing cash or checks and transferring funds using ATMs.

Feature	Debit Card	Credit Card
Nature	Linked to a customer's bank account	Provides a line of credit based on the card limit
Funds Source	Directly accessed from the linked bank account	Borrowed from the credit card issuer

Feature	Debit Card	Credit Card
Usage	Withdraw cash, make purchases within account balance	Make purchases or obtain cash up to the credit limit
Interest	Typically no interest charges on purchases	Interest charged on unpaid balances
Credit Limit	Limited to available funds in the linked account	Pre-approved credit limit set by the issuer
Overdraft Facility	Not available	Not applicable
Monthly Statements	Not applicable (transaction details in bank statement)	Detailed monthly statements provided
Credit Score Impact	Does not affect credit score	Affects credit score based on usage and repayment
Rewards and Benefits	Fewer rewards and benefits compared to credit cards	Offers various rewards, cashback, travel perks, etc.

Feature	Debit Card	Credit Card
Cashback	Limited cashback options	Extensive cashback options based on spending
Fees	Lower or no annual fees	May have annual fees, late payment fees, etc.
Security	Less risk since directly linked to a bank account	Risk of fraud, but better dispute resolution
Acceptance	Widely accepted both online and offline	More widely accepted globally for purchases
Foreign Transactions	Limited or additional charges for international use	Widely accepted for international transactions
Grace Period	Not applicable	Typically a grace period for interest-free usage

Alerts and Notifications:

Email and SMS Alerts: Providing real-time notifications to users for account activities, deposits, withdrawals, and payments.

Security Features:

Multi-Factor Authentication (MFA): Verifying user identity through multiple authentication methods like passwords, security questions, OTPs, or biometrics.

Encryption: Securing data transmission between the user's device and the bank's server using encryption protocols.

Investment and Trading Services:

Online Investments: Accessing and managing investment portfolios, trading stocks, bonds, and other securities online.

Mutual Fund Investments: Investing in mutual funds and managing investments through online platforms.

Loan Applications and Management:

Online Loan Applications: Applying for loans, checking eligibility, and submitting documentation through online banking.

Loan Account Management: Viewing loan details, EMI schedules, and making loan payments online.

Customer Support and Chatbots:

Online Support Chat: Providing real-time customer support through chat or messaging within the online banking platform.

AI-Powered Chatbots: Using artificial intelligence to assist users in queries, account inquiries, and general assistance.

International Banking Services:

Foreign Exchange Services: Buying and selling foreign currencies, managing forex accounts, and conducting international transactions.

Global Funds Transfer: Transferring funds internationally using secure online banking platforms.

Financial Planning Tools and Calculators:

Budgeting Tools: Helping users create budgets, track expenses, and plan their financial goals.

Loan and Mortgage Calculators: Assisting users in calculating loan repayments, mortgage amounts, and interest rates.

E-banking has become an integral part of modern banking, offering convenience, accessibility, and efficiency for customers to manage their financial affairs and conduct transactions securely from anywhere at any time.

OFFLINE

Offline banking refers to traditional banking activities conducted at physical bank branches or using non-electronic means. Here are the key components and activities involved in offline banking:

In-Person Banking Transactions:

Cash Withdrawals and Deposits: Conducting transactions such as withdrawing cash, depositing money, and requesting change in person at bank branches.

Check Encashment: Cashing checks by visiting a bank branch and presenting the check for payment.

Bank Branches and ATMs:

Branch Visits: Customers can visit a physical bank branch for various banking services, including account inquiries, updates, and account openings.

ATM Transactions: Using ATMs to withdraw cash, deposit checks or cash, and check account balances.

Cheque Payments and Transactions:

Issuing Checks: Writing and issuing checks to make payments, transfers, or settle bills.

Check Clearing and Processing: Depositing checks into the bank account through bank branches.

Bank Statements and Passbooks:

Passbook Updates: Updating passbooks by visiting bank branches to record transactions, interest accrual, and account balances.

Bank Statements: Receiving physical bank statements periodically through mail or in person from bank branches.

Loan Applications and Inquiries:

In-Person Loan Applications: Applying for loans, mortgages, or credit facilities by visiting a bank branch and submitting the required documents.

Loan Account Inquiries: Visiting the bank branch to inquire about loan details, repayment schedules, and loan-related queries.

Account Opening and Closing:

Account Opening Procedures: Visiting the bank branch to open a new bank account, including submitting required identification and completing necessary paperwork.

Account Closure: Closing a bank account by visiting the branch and following the bank's account closure procedures.

Customer Service and Support:

Branch Assistance: Seeking assistance, guidance, and support from bank personnel for account-related queries, account maintenance, and banking services.

Customer Feedback and Grievance Handling: Providing feedback or raising grievances by visiting the branch or through written communication.

Safe Deposit Boxes:

Renting Safe Deposit Boxes: Renting safe deposit boxes at the bank branch for secure storage of valuable items and documents.

Cashier's Services:

Cashier Services: Utilizing cashier services at the bank for cash transactions, change requests, and other financial needs.

Account Updates and Changes:

Account Information Updates: Visiting the bank to update personal information, contact details, and beneficiary details associated with the bank account.

Investment Consultations:

In-Person Investment Consultations: Meeting with bank representatives or financial advisors in the branch for investment advice, portfolio reviews, and financial planning.

Offline banking remains an important aspect of the banking sector, providing a physical platform for customers to conduct various financial transactions and access banking services through in-person interactions at bank branches and ATMs.

PROS AND CONS

Online and offline banking are two distinct approaches to managing financial transactions and services. Each has its own set of advantages and disadvantages, catering to different preferences and circumstances. Here's a comparative overview of online and offline banking:

Online Banking:

Advantages:

Convenience and Accessibility:

Accessible 24/7 from anywhere with an internet connection, providing flexibility to manage accounts and perform transactions at any time.

Customers can check account balances, view transaction history, transfer funds, and pay bills without visiting a physical branch.

Time-Saving:

Transactions are generally faster and more efficient compared to traditional offline methods, reducing waiting times and paperwork.

Cost-Efficiency:

Often, online transactions have lower fees compared to traditional banking services, such as reduced or no fees for online bill payments and transfers.

Paperless Transactions:

Encourages environmental sustainability by minimizing the need for paper-based transactions, statements, and documents.

Automation and Alerts:

Automation features allow customers to set up recurring payments, schedule transactions, and receive alerts for account activity, enhancing financial management.

Wider Range of Services:

Online banking often offers a broader range of services, including investment management, loan applications, and online customer support.

Disadvantages:**Security Concerns:**

Online transactions are susceptible to cyber threats and hacking, necessitating robust security measures such as strong passwords, two-factor authentication, and secure networks.

Technical Issues:

Dependence on technology exposes users to potential system outages, connectivity issues, or software malfunctions that could disrupt banking activities.

Digital Literacy Requirements:

Users need a level of technological proficiency to navigate online banking platforms effectively, which can be a barrier for some individuals, especially the elderly or those with limited tech knowledge.

Offline Banking:

Advantages:

In-Person Interaction:

Customers can interact directly with bank staff, which can be comforting and helpful for inquiries, assistance, and complex transactions.

Face-to-Face Assistance:

Personalized assistance and guidance are readily available for various banking needs, making it easier for customers to understand and navigate financial services.

Cash Transactions:

Physical branches allow for easy cash deposits, withdrawals, and currency exchange, which can be essential for certain transactions.

Physical Records:

Some individuals prefer physical records of transactions, statements, and receipts, which can be obtained easily from bank branches.

Disadvantages:

Limited Hours of Operation:

Bank branches operate during specific hours, often requiring customers to plan their visits within those time frames, which can be inconvenient.

Queue and Wait Times:

Visiting a physical branch may involve waiting in queues, resulting in longer transaction times compared to the efficiency of online banking.

Geographic Limitations:

Accessible only to customers who live near or have easy access to a bank branch, limiting services for individuals in remote or rural areas.

Transaction Fees:

Some transactions conducted at a branch may incur fees, especially for services like cashier's checks or wire transfers.

EFFECTS

Online and offline banking have distinct effects on individuals, businesses, and the overall banking industry. Here are some of the key effects of both:

Online Banking:

Convenience and Accessibility:

Allows customers to access their accounts, make transactions, and manage finances 24/7 from anywhere with internet access.

Reduces the need to visit physical branches, saving time and effort.

Efficiency and Speed:

Transactions are processed faster compared to traditional offline methods, leading to quicker fund transfers and payments.

Real-time updates on account balances, transactions, and alerts enhance financial monitoring.

Cost-Effectiveness:

Reduces operational costs for banks by minimizing the need for physical branches and associated overheads.

Paperless Transactions and Environmental Impact:

Promotes a paperless environment, reducing the consumption of paper and its associated environmental impact.

Security and Fraud Prevention:

Utilizes advanced security measures such as encryption, multi-factor authentication, and monitoring systems to protect against fraud and unauthorized access.

Integration and Automation:

Integrates with other financial tools and software, facilitating better financial management and automation of recurring transactions.

Customer Engagement and Customization:

Enables banks to offer personalized services, targeted promotions, and customized financial solutions based on customers' transaction history and preferences.

Offline Banking:**Personal Interaction and Relationship Building:**

Provides face-to-face interaction between customers and bank staff, fostering trust and a sense of community. Allows for personalized assistance and guidance in financial matters.

Cash Transactions and In-Person Services:

Facilitates cash deposits, withdrawals, and other transactions at physical branches and ATMs. Offers services like certified checks, bank drafts, and notarization that may require physical presence.

Limited Operating Hours:

Branches typically have set operating hours, limiting accessibility compared to online banking's 24/7 availability.

Documented Transactions:

Provides physical documentation of transactions, which some customers may prefer for record-keeping purposes.

Longer Transaction Processing Time:

Transactions may take longer to process compared to online banking due to manual processing and paperwork.

Higher Operational Costs:

Maintaining physical branches and staff involves higher operational costs for the bank, which can potentially be passed on to customers.

Geographical Limitations:

Access to offline banking services is limited to physical branch locations, which can be a challenge for those in remote or rural areas.

RISK

Risks in Online Banking:

Cybersecurity Threats:

Malware and Viruses: Malicious software can compromise devices and steal login credentials or financial information.

Hacking and Data Breaches: Cybercriminals may infiltrate banking systems and gain unauthorized access to sensitive customer data.

Online banking, while convenient and efficient, is susceptible to various types of frauds and cybercrimes. Banks and customers need to remain vigilant to protect themselves against these threats. Here are some common types of frauds associated with online banking:

Phishing:

Phishing Emails: Cybercriminals send emails pretending to be from legitimate sources, such as banks, asking for sensitive information like login credentials or credit card details.

Phishing Websites: Fake websites that resemble real bank sites, used to deceive users into providing their login credentials and personal information.

Identity Theft:

Stolen Personal Information: Criminals steal personal data to impersonate the victim and gain unauthorized access to bank accounts or other financial platforms.

Social Engineering: Manipulating individuals into revealing sensitive information through phone calls, messages, or emails.

Malware and Trojan Attacks:

Malicious Software (Malware): Criminals use malware to gain unauthorized access to a user's device and steal banking credentials, passwords, and other sensitive data.

Trojan Horse Programs: Malicious software disguised as legitimate applications or files that, once downloaded, can compromise security and privacy.

Account Takeover:

Credential Stuffing: Attackers use stolen login credentials from other breaches to gain unauthorized access to online bank accounts.

Brute Force Attacks: Repeatedly attempting different username and password combinations until the correct one is found.

Card Skimming and Card Cloning:

Skimming: Criminals install devices (skimmers) on ATMs or card readers to capture card information, including the magnetic stripe, for unauthorized transactions.

Cloning: Creating duplicate cards using stolen card data to make unauthorized transactions.

Man-in-the-Middle (MitM) Attacks:

Intercepting Communication: Cybercriminals intercept and alter communications between the user and the bank, potentially stealing sensitive information like login credentials and transaction data.

Remote Access Scams:

Tech Support Scams: Scammers pose as tech support representatives and convince victims to grant remote access to their devices, enabling theft of personal and banking information.

Mobile Banking Frauds:

Mobile App Spoofing: Creating fake mobile banking apps to trick users into entering their credentials, leading to account compromise.

SMS Phishing (Smishing): Phishing attempts using SMS or text messages, directing users to fake websites or urging them to call a fraudulent phone number.

Unauthorized Transactions and Payment Frauds:

Unauthorized Fund Transfers: Criminals gain access to a victim's account and initiate unauthorized fund transfers to their accounts.

Impersonation and Invoice Fraud: Criminals pose as legitimate vendors or clients to trick businesses into making false payments.

Account Hacking and Data Breaches:

Weak Passwords: Hackers exploit weak passwords to gain unauthorized access to online accounts and banking platforms.

Data Breaches: Unauthorized access to a bank's or third-party service's database, leading to the exposure of sensitive customer information.

Preventing online banking fraud requires implementing robust security measures, educating customers about safe practices, employing multi-factor authentication, regularly updating systems, and monitoring account activity for any suspicious behavior.

Unauthorized Transactions: Hackers may gain access to a user's account and conduct unauthorized transactions, leading to financial loss.

Pharming: Attackers manipulate DNS systems to redirect users to fraudulent websites that appear legitimate to steal login credentials.

Weak Authentication and Password Security: Weak passwords or inadequate authentication methods can make it easier for attackers to gain unauthorized access to accounts.

Device Vulnerabilities: Insecure devices, outdated operating systems, or unsecured Wi-Fi connections can be exploited to compromise online banking sessions.

Risks in Offline Banking:

Physical Security Threats:

Theft or loss of checkbooks, debit/credit cards, or other physical banking documents can lead to unauthorized transactions.

Forgery and Counterfeiting: Criminals may forge signatures on checks or counterfeit currency, causing financial losses.

Payment Card Skimming: Criminals use skimming devices to capture card information at ATMs or point-of-sale terminals, enabling unauthorized transactions.

Account Takeover: Criminals may use stolen or duplicated identification to impersonate an account holder and gain access to their funds.

Check Fraud: Fraudsters may alter checks or create fake checks to withdraw funds from a victim's account.

Social Engineering: Scammers use manipulation or deception to trick individuals into revealing sensitive information or performing actions against their interest.

Mitigating Risks:

Online Banking:

- Use strong passwords and enable multi-factor authentication (MFA).
- Keep software and antivirus programs up to date.
- Be cautious of phishing attempts and only use secure, trusted websites.
- Monitor account activity regularly and report any suspicious transactions immediately.

Offline Banking:

- Safeguard physical banking documents, cards, and checks.
- Regularly reconcile bank statements to detect any unauthorized transactions.
- Use secure ATMs and point-of-sale terminals.
- Be vigilant and cautious about sharing personal information, even in person or over the phone.

Both online and offline banking have evolved with enhanced security measures, but users must remain proactive in safeguarding their financial information and assets.

HOW TO OVERCOME RISK

TO OVERCOME ONLINE RISK

To overcome online risks in banking and enhance cybersecurity, both individuals and banks need to take proactive measures to protect sensitive information and ensure secure transactions. Here are several steps to help mitigate online risks in banking:

Use Strong, Unique Passwords:

Create complex passwords with a mix of upper and lower case letters, numbers, and special characters.

Avoid using easily guessable information, such as birthdays or names.

Enable Two-Factor Authentication (2FA):

Implement 2FA for additional layers of security. This could be through text messages, authentication apps, or biometrics.

Regularly Update Software and Operating Systems:

Keep your devices, software, and applications up to date to benefit from the latest security patches and improvements.

Use Secure and Updated Browsers:

Choose reputable browsers with built-in security features, and ensure they are updated regularly.

Educate and Train Employees:

Banks should conduct regular training and awareness programs for employees to educate them on the latest cyber threats and how to identify and prevent them.

Implement Firewalls and Anti-malware Software:

Employ reputable firewall and anti-malware solutions to safeguard against malicious software and unauthorized access.

Secure Network Connectivity:

Use secure and encrypted connections (HTTPS) when accessing banking websites.

Avoid using public Wi-Fi networks for sensitive transactions.

Regularly Monitor Accounts:

Keep a close eye on your bank accounts for any unauthorized or suspicious activity. Report discrepancies to the bank immediately.

Be Cautious of Phishing Attempts:

Be skeptical of unsolicited emails, calls, or messages asking for personal or financial information. Verify the sender's legitimacy before providing any sensitive data.

Limit Data Sharing:

Only provide necessary information to banks and other online platforms. Avoid sharing personal or financial details on unsecured websites.

Regular Backups:

Backup important data and financial records regularly to protect against data loss in case of cyber-attacks.

Implement Transaction Verification Procedures:

Establish processes to verify and confirm high-risk or unusual transactions through multiple communication channels.

Hire Cybersecurity Experts:

Banks should employ cybersecurity experts or engage third-party firms to regularly assess and improve their security measures.

Compliance with Regulations:

Ensure compliance with industry-specific regulations and standards related to cybersecurity and data protection.

Incident Response Plan:

Develop a comprehensive incident response plan to effectively handle and mitigate the impact of cyber incidents.

Continuous Monitoring and Testing:

Continuously monitor systems, conduct regular security assessments, and perform penetration testing to identify vulnerabilities and weaknesses.

TO OVERCOME OFFLINE RISK

Offline banking risks refer to security threats and issues that may occur outside of the digital realm, often involving physical documents, transactions, or activities. Here are several ways to mitigate offline banking risks:

Secure Physical Documents:

Store important banking documents, such as account statements, in a secure and locked location at home. Shred any unnecessary financial documents before disposing of them.

Safeguard Debit and Credit Cards:

Keep your debit and credit cards in a secure wallet or cardholder. Avoid carrying all your cards at once and only take the ones you need for a particular outing.

Monitor Account Statements:

Regularly review your bank account and credit card statements for unauthorized or suspicious transactions. Report any discrepancies to your bank promptly.

Use ATMs Safely:

Use ATMs in well-lit and populated areas. Cover the keypad when entering your PIN and be vigilant for any suspicious devices attached to the ATM.

Be Cautious of Check Fraud:

Use checks judiciously and securely, and store them in a secure location. Avoid using outdated checkbooks, and report lost or stolen checks to your bank immediately.

Limit Personal Information Sharing:

Be cautious about sharing personal and financial information over the phone or in public places. Verify the identity of individuals requesting personal information.

Protect Personal Identification Numbers (PINs):

Memorize your PINs and passwords instead of writing them down. Never share your PINs or passwords with anyone, and avoid using easily guessable numbers.

Be Mindful of Mail Security:

Retrieve your mail promptly to avoid theft of sensitive information. Consider using a locked mailbox or a post office box for added security.

Be Aware of Social Engineering Attacks:

Be cautious of unsolicited phone calls or visits from individuals claiming to be from your bank or a reputable institution. Verify the authenticity of such contacts by calling the bank directly using the official contact information.

Regularly Review Credit Reports:

Obtain and review your credit report annually to detect any unauthorized accounts or suspicious activity. Report any discrepancies to the credit reporting agency immediately.

Regularly Update Contact Information with the Bank:

Ensure that your contact details, such as phone numbers and addresses, are up to date with the bank to receive important notifications promptly.

Educate Yourself and Family Members:

Educate family members, especially elderly individuals, about offline banking risks and how to protect themselves from scams and fraud.

Maintain Communication with Your Bank:

Establish a good relationship with your bank and promptly report any concerns or suspicious activities.

Establish Power of Attorney Carefully:

If you grant someone power of attorney, ensure it's to a trusted individual and that they understand their responsibilities and limitations. By implementing these measures and staying vigilant, you can significantly reduce offline banking risks and protect your financial assets and personal information.

CHAPTER 2

REVIEW OF LITERATURE

Study on Online Banking Adoption:

Researchers have extensively examined factors influencing the adoption of online banking. Studies by Alalwan et al. (2016) and Polasik et al. (2015) highlighted factors like perceived usefulness, ease of use, security, and trust as critical determinants of online banking adoption.

Comparison of Online and Offline Banking:

Numerous studies have compared online and offline banking services. Notably, Karjaluoto et al. (2002) conducted a comparative study on customer preferences, showing that customers value convenience and ease of use in online banking, while personal service and trust were crucial in offline banking.

Security in Online Banking:

Security concerns in online banking have been a significant focus. Turel and Serenko (2012) discussed the role of perceived security and trust in users' intention to use online banking, emphasizing the need for robust security measures to enhance user confidence.

Customer Experience and Satisfaction:

Research by Sathye (1999) explored factors affecting customer satisfaction in traditional banking, emphasizing the importance of personal interactions. In contrast, studies like Jun and Cai (2001) discussed the impact of service quality on customer satisfaction in online banking.

Impact of Technology Advancements:

Studies by Riquelme and Rios (2010) delved into the influence of technological advancements on online banking adoption, underlining the significance of factors such as internet penetration, device accessibility, and digital literacy.

Regulatory Environment and Banking Services:

Research has also explored the regulatory aspects of online and offline banking. Gupta and Seetharaman (2004) discussed how regulatory frameworks influence the development and adoption of online banking services.

Financial Inclusion and Access:

Several studies, such as those by Donou-Adonsou and Tchakoute-Tchuigoua (2014), have examined the role of online banking in promoting financial inclusion, highlighting how online banking can provide access to financial services for underserved populations.

Future Trends and Customer Expectations:

Literature by Dey (2019) and Gurung et al. (2019) has discussed emerging trends and customer expectations in online banking, focusing on the need for personalized experiences, seamless interfaces, and integration of new technologies like AI and blockchain.

Omnichannel Banking:

Recent studies, like the research by Nguyen et al. (2020), emphasize the growing trend of omnichannel banking. This approach integrates online and offline channels to provide a seamless, consistent customer experience across various touchpoints.

Impact of the COVID-19 Pandemic:

The COVID-19 pandemic significantly accelerated the adoption of online banking. Studies, such as those by Akter et al. (2020), analyze how the crisis acted as a catalyst for behavioral changes, increasing reliance on digital banking due to lockdowns and health concerns.

User Experience and Design:

User experience (UX) design in online banking has gained attention. Research by Almousa (2019) discusses the importance of effective UX design in enhancing customer satisfaction and driving adoption of digital banking platforms.

Big Data Analytics and Personalization:

Recent research, like the work by Xu et al. (2020), explores the role of big data analytics in banking. It emphasizes how advanced analytics enable banks to analyze customer behavior and preferences, leading to personalized services and product offerings.

Blockchain Technology in Banking:

Blockchain technology's potential in banking is an emerging area of interest. Studies by Zhang et al. (2020) discuss how blockchain can enhance security, transparency, and efficiency in banking operations, impacting both online and offline services.

Cybersecurity and Fraud Prevention:

Given the rise in cyber threats, literature often focuses on enhancing cybersecurity in online banking. Research by Al-Debei et al. (2020) highlights the importance of robust cybersecurity measures to protect customer data and build trust in online banking.

Financial Literacy and Digital Skills:

Recent studies, like the work by Lusardi and Tufano (2015), emphasize the need to enhance financial literacy and digital skills to promote effective usage of both online and offline banking services, especially among underserved populations.

Sustainability and Green Banking:

Sustainable banking practices are gaining traction. Research by Ferreira and Marques (2021) explores how digitalization, including online banking, contributes to sustainable banking initiatives by reducing paper usage and promoting eco-friendly practices.

Customer Trust and Loyalty:

Literature often discusses how trust is a fundamental aspect of customer loyalty in both online and offline banking. Recent research by Chen and Lu (2021) delves into the factors influencing trust and its impact on customer loyalty in digital banking.

AI and Machine Learning in Banking:

The integration of artificial intelligence (AI) and machine learning (ML) in banking is a prevalent research area. Studies, such as those by Mishra et al. (2021), explore how AI and ML improve fraud detection, risk assessment, customer service, and personalized recommendations in both online and offline banking.

Mobile Banking and Apps:

With the proliferation of smartphones, mobile banking and applications have gained prominence. Recent literature, such as research by Nguyen et al. (2019), examines the factors influencing the adoption and usage of mobile banking apps, considering their unique features and user interfaces.

Open Banking and APIs:

Open banking, facilitated by the use of application programming interfaces (APIs), is transforming the banking landscape. Research by Kshetri and Voas (2018) discusses how open banking fosters innovation, collaboration, and enhanced services through secure data sharing between financial institutions and third-party providers.

Social Media and Customer Engagement:

The role of social media in engaging customers in banking services is gaining attention. Studies, like the one by Bose et al. (2021), analyze how banks utilize social media platforms to enhance customer engagement, brand presence, and communication, both online and offline.

Customer Behavior Analysis:

Understanding customer behavior is crucial for designing effective banking strategies. Recent research, such as the work by Djajadikerta and Tripe (2020), investigates the factors influencing customer behavior in adopting online and offline banking services and how banks can leverage these insights for better service delivery.

Regtech and Compliance:

Regulatory technology (Regtech) is emerging as a critical area of focus. Research by Maruthappu et al. (2020) explores how Regtech solutions assist banks in complying with regulatory requirements efficiently and effectively, especially in the context of online transactions and data security.

Cross-Border Banking and Globalization:

Banking is increasingly crossing borders with globalization. Studies, such as research by Claessens et al. (2020), discuss the challenges and opportunities for banks in providing seamless cross-border services, both online and offline, and adapting to diverse regulatory frameworks.

Financial Technology (Fintech) Integration:

Fintech integration within traditional banking is a growing field. Recent literature, such as the study by Demirgüç-Kunt et al. (2018), examines how traditional banks incorporate fintech innovations, including payment systems, robo-advisors, and peer-to-peer lending, into their service offerings.

Ethical and Responsible Banking:

Ethics in banking, encompassing responsible lending, ethical investment, and sustainability, is a growing concern. Research, such as the study by Crowther (2021), discusses how banks can align their practices with ethical principles and societal values in both online and offline operations.

Real-Time Payments and Instant Settlements:

Real-time payment systems have gained traction. Studies, like the research by D'Agostino and Giudici (2021), explore the impact of real-time payments on banking, focusing on the efficiency, security, and potential implications for both online and offline transactions.

Neobanks and Challenger Banks:

Neobanks and challenger banks, often digital-only entities, are disrupting traditional banking. Research, such as the work by Pousttchi and Schurig (2018), investigates the strategies, business models, and market dynamics of neobanks in comparison to traditional offline banking.

Customer-Centricity and Personalization:

Personalizing customer experiences is paramount. Studies, like research by Băcanu et al. (2021), delve into the strategies and technologies enabling banks to provide personalized services, offers, and recommendations both online and offline based on customer preferences and behavior.

Financial Inclusion through Technology:

Leveraging technology to promote financial inclusion is a key area of research. Recent literature, such as the study by Maredia et al. (2020), examines how digital banking can be a tool to extend financial services to the unbanked or underbanked populations, aiding their inclusion into the formal financial system.

Cross-Channel Integration:

Integrating various channels seamlessly for a unified banking experience is vital. Studies, like research by Kabadayi et al. (2019), discuss the importance of integrating online and offline channels to offer a cohesive customer journey and consistent services across touchpoints.

Economic and Societal Impact:

Understanding the broader impact of banking is critical. Research, such as the study by Claessens et al. (2020), explores the economic and societal implications of the shift towards online banking, including its effects on employment, access to finance, and economic growth.

Customer Privacy and Data Protection:

With the increasing reliance on digital platforms, protecting customer data and privacy has become paramount. Research, such as the study by Zhang et al. (2019), investigates privacy concerns related to online banking and explores ways to enhance data protection.

Financial Education and Digital Literacy:

Enhancing financial education and digital literacy is essential for successful adoption and effective use of online banking. Research, like the work by Lusardi and Mitchell (2011), emphasizes the need to improve financial literacy to ensure customers make informed decisions in online financial transactions.

Health and Well-being in Banking:

Recent literature has started to explore the relationship between banking and customer health and well-being. For example, studies, like the one by Sundarakani et al. (2020), delve into how online banking impacts stress levels and overall well-being, especially during the pandemic.

Economic Empowerment and Gender Inclusivity:

Banking, especially through online channels, can contribute to economic empowerment, particularly for women. Research, such as the study by Njuguna and Kariuki (2019), explores the role of online banking in promoting financial inclusion and economic empowerment, especially among women.

Behavioral Economics and Decision Making:

Behavioral economics principles play a significant role in understanding customer behavior in banking. Recent research, such as the work by Thaler (2015), delves into behavioral biases and their implications for decision-making in financial services, including online and offline banking.

Financial Health and Well-being Apps:

Apps focusing on enhancing financial health and well-being are gaining popularity. Studies, like the research by Hogarth et al. (2018), explore the effectiveness and impact of mobile apps that help users manage finances, save money, and make informed financial decisions.

Customer Journey Mapping:

Understanding and optimizing the entire customer journey across both online and offline channels is a growing research area. Researchers, like Verhoef et al. (2015), explore how mapping the customer journey helps in identifying touchpoints and enhancing customer experiences in banking.

Economic and Social Impact of FinTech:

The rise of financial technology (FinTech) is transforming the financial landscape. Research, such as the study by Arner et al. (2015), investigates the economic and social impact of FinTech on traditional banking, financial stability, and regulatory frameworks.

Adoption of Wearables in Banking:

Wearable devices are gaining traction in banking. Studies, like the research by Hajli et al. (2016), examine the adoption and acceptance of wearables for banking transactions and how these devices are shaping customer experiences.

Localized Banking Solutions:

Research is focusing on the importance of localized and culture-specific banking solutions. Studies, like the work by Awa et al. (2020), delve into how tailoring banking services to suit local cultures and preferences enhances adoption and customer satisfaction.

Virtual Reality (VR) and Augmented Reality (AR) in Banking:

Virtual reality and augmented reality technologies are finding applications in banking. Research, such as the study by Deakin et al. (2019), explores the potential of VR and AR in providing immersive banking experiences and enhancing customer engagement.

Sustainable Finance and Green Banking:

Green banking and sustainable finance are gaining prominence. Studies, like the research by Schaltegger and Burritt (2017), discuss the role of banks in promoting sustainability, environmentally responsible practices, and investments in green projects.

Biometrics and Authentication:

Biometric authentication methods are being studied for secure online transactions. Research, like the study by Jain et al. (2016), explores the effectiveness of biometric technologies like fingerprints, iris scans, and facial recognition in enhancing security and user authentication in online banking.

Psychological and Behavioral Aspects of Online Banking:

Understanding the psychological and behavioral aspects of online banking is gaining attention. Research, such as the study by Prendergast and Srivastava (2019), explores how psychological factors influence online banking behavior and decision-making.

Cashless Economies and Digital Payments:

The move towards cashless economies is a notable trend. Research, like the study by Chishti and Barberis (2016), delves into the adoption and impact of digital payment systems, including mobile payments and digital wallets, on traditional banking systems.

Compliance and Regulatory Technology (RegTech):

The rise of regulatory technology (RegTech) is an area of focus. Research, such as the work by Diehl et al. (2019), discusses how RegTech solutions assist banks in complying with complex regulatory requirements efficiently and cost-effectively.

Socially Responsible Banking and ESG (Environmental, Social, and Governance) Criteria:

The integration of ESG criteria in banking is an emerging trend. Research, such as the study by Scholtens and Kang (2013), examines how banks are incorporating ESG factors into their strategies, lending practices, and investment decisions.

Cryptocurrency and Decentralized Finance (DeFi):

The rise of cryptocurrencies and DeFi is transforming the financial landscape. Research, such as the study by Narayanan et al. (2016), explores the impact of cryptocurrencies, blockchain technology, and DeFi on traditional banking and financial systems.

Interoperability and Standardization in Banking:

Interoperability and standardization of banking systems are gaining importance. Research, like the study by Bartz et al. (2021), discusses how standardization efforts facilitate seamless interactions and transactions between different banks and financial institutions.

Economic Resilience and Banking:

Research is exploring the role of banks in enhancing economic resilience. Studies, such as the work by Beck et al. (2018), discuss how resilient banking systems contribute to overall economic stability and recovery during crises.

CHAPTER 3

RESEARCH METHODOLOGY

Research methodology for studying online and offline banking in India involves a structured approach to gather, analyze, and interpret data related to the usage, preferences, challenges, and trends in online and offline banking services in the Indian context. Below is a general outline of a research methodology.

3.1 RESEARCH DESIGN:

This research is descriptive and quantitative in nature as it is studying the comparative analysis on online and offline.

3.2 SOURCE OF DATA:

For achieving specific objectives of this study, data were gathered from both primary and secondary sources.

- **Primary sources:**

- Opinions about mobile banking application

- Questionnaire method to gather the information.

- **Secondary sources:**

- News articles

- Industry report

- Research papers

- Some relevant study material

- websites etc.

3.3 DATA COLLECTION:

- Data collected by the primary data in this used questionnaire.
- A structured questionnaire is a research instrument consisting of a series of questions and other prompts for the purpose of gathering information from respondents.
- Use google form.
- Also consider secondary data from websites and annual reports.

3.4 LOCATION AND TARGETED PEOPLE OF THE STUDY:

The study was primarily conducted in Chennai.

The targeted people are people having bank account.

3.5 HYPOTHESIS TESTING:

- HO: Significant difference between the age of the customer and their modes of banking
- H1: Significant difference between the age of the customer and their modes of banking.

3.6 LIMITATIONS OF STUDY:

- Geographical scope is confined to Chennai.
- The study is based upon the comparative of online and offline banking in India.
- The data collected for the research is fully on primary data given by the respondents

3.7 SAMPLING METHOD AND SIZE:

Convenience samples method was used to select the sample respondents from 50 customers of all banks branches in India.

3.8 TOOLS FOR ANALYSIS:

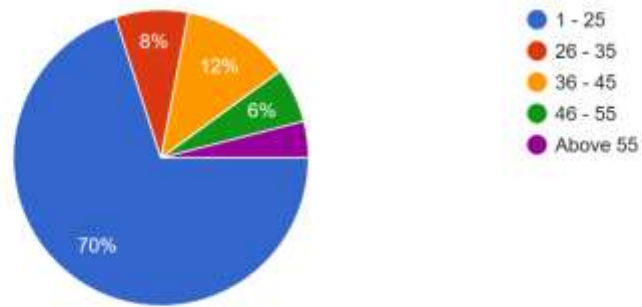
- Percentage analysis and average was used for analysing the data.
- Pie chart
- One way annova.

CHAPTER 4

DATA ANALYSIS & INTERPRETATION

2. Age

50 responses



SI NO	AGE	NO OF RESPONSE	PERCENTAGE
1	1-25	35	70
2	26-35	4	8
3	36-45	6	12
4	46-55	3	6
5	ABOVE 55	2	4
TOTAL		50	100

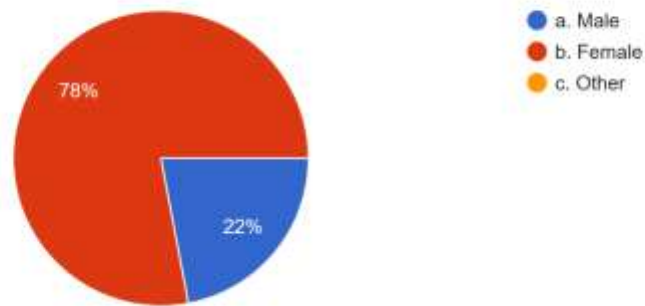
INTERPRETATION

From the above table it can understand that 70% are from age 1-25, 8% are from age 26-35, 12% are from age 36-45, 6% are from age 46-55, 4% are from age above 55.

INFERENCE

70% are from age 1-25.

3. Gender:
50 responses



SI NO	GENDER	NO OF RESPONSE	PERCENTAGE
1	MALE	11	22
2	FEMALE	39	78
3	OTHER	0	0
TOTAL		50	100

INTERPRETATION

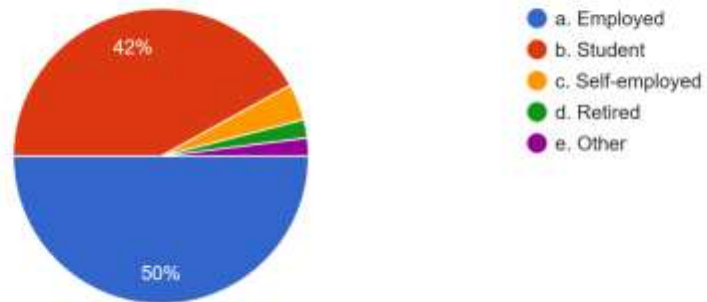
From the above table it can understand that 22% are male, 78% are female.

INFERENCE

78% ARE FEMALE

4. Occupation

50 responses



SI NO	OCCUPATION	NO OF RESPONSE	PERCENTAGE
1	EMPLOYED	25	50
2	STUDENT	21	42
3	SELF-EMPLOYED	2	4
4	RETIRED	1	2
5	OTHER	1	2
TOTAL		50	100

INTERPRETATION

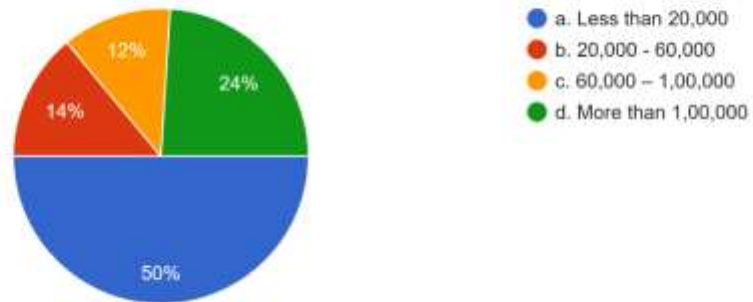
From the above table 50% are employed, 42% are student, 4% are self-employed, 2% are retired, 2% are others.

INFERENCE

50% are EMPLOYED.

5. Annual Income

50 responses



SI NO	ANNUAL INCOME	NO OF RESPONSE	PERCENTAGE
1	LESS THAN 20000	25	50
2	20000-60000	7	14
3	60000-100000	6	12
4	MORE THAN 100000	12	24
TOTAL		50	100

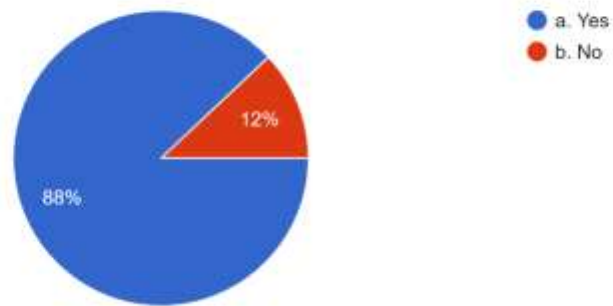
INTERPRETATION

From the above 50% are less than 20,000. 14% earn between 20,000-60,000. 12% earn between 60,000-1,00,000. 24% earn more than 1,00,000.

INFERENCE

50% earnings are less than 20,000.

6. Do you use Online Banking?
50 responses



SI NO	DO YOU USE ONLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	YES	44	88
2	NO	6	12
TOTAL		50	100

INTERPRETATION

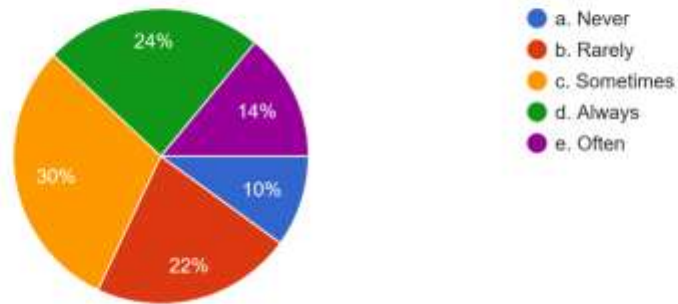
From the above table 88% says yes, 12% says no.

INFERENCE

88% says YES.

7. How often do you use Online Banking ?

50 responses



SI NO	HOW OFTEN DO YOU USE ONLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	NEVER	5	10
2	RARELY	11	22
3	SOMETIMES	15	30
4	ALWAYS	12	24
5	OFTEN	7	14
TOTAL		50	100

INTERPRETATION

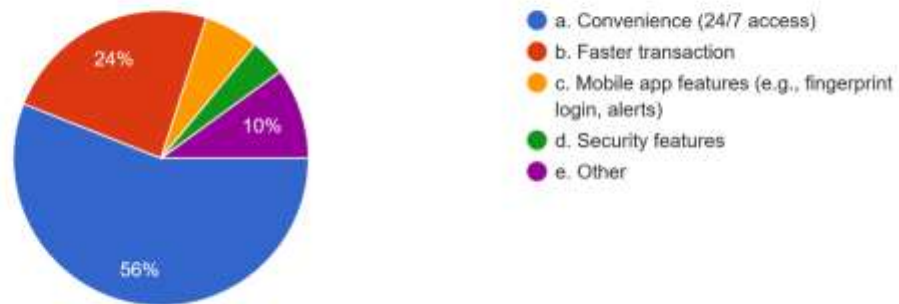
From the above table it can understand that 10% says never, 22% says rarely, 30% says sometimes, 24% says always, 14% says often.

INFERENCE

30% says SOMETIMES.

8. What are the main reasons for using online banking?

50 responses



SI NO	WHAT ARE THE MAIN REASONS FOR USING ONLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	CONVENIENCE	28	56
2	FASTER TRANSACTION	12	24
3	MOBILE APP	3	6
4	SECURITY FEATURES	2	4
5	OTHER	5	10
TOTAL		50	100

INTERPRETATION

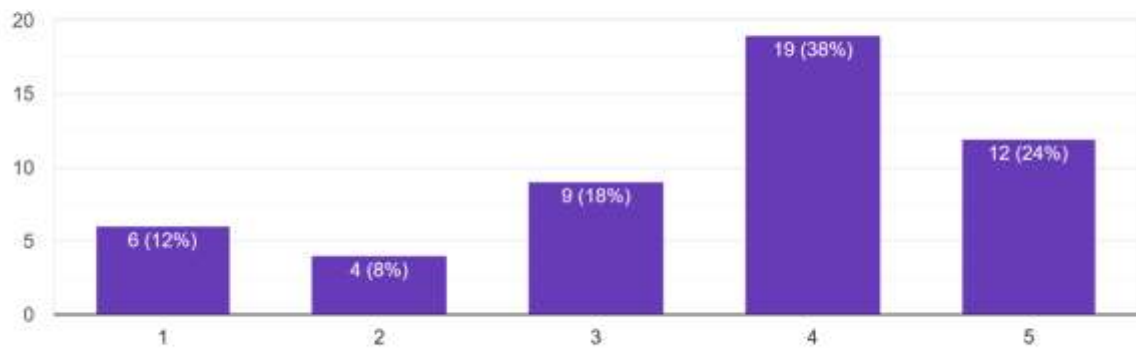
From the above table it can understand that 56% are convenience, 24% are faster transaction, 6% are mobile app, 4% are security features, 10% are other.

INFERENCE

56% are CONVENIENCE.

9. On a scale of 1-5, how satisfied are you with your online banking experience?

50 responses



SI NO	HOW SATISFIED ARE YOU WITH ONLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	Scale 1	6	12
2	Scale 2	4	8
3	Scale 3	9	18
4	Scale 4	19	38
5	Scale 5	12	24
TOTAL		50	100

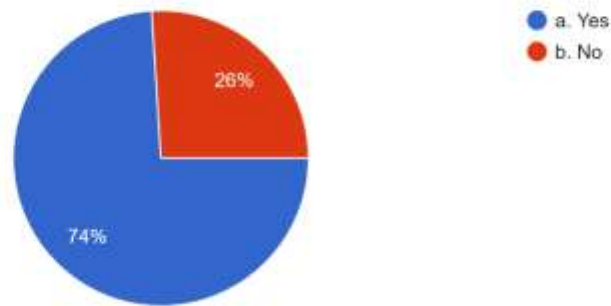
INTERPRETATION

From the above table it can understand that 12% are scale 1, 8% are scale 2, 18% are scale 3, 38% are scale 4, 24% are scale 5.

INFERENCE

38% are SCALE 4.

10. Do you use offline banking services? (e.g., visiting a bank branch, ATM transactions)
50 responses



SI NO	DO YOU USE OFFLINE BANKING SERVICE	NO OF RESPONSE	PERCENTAGE
1	YES	37	74
2	NO	13	26
TOTAL		50	100

INTERPRETATION

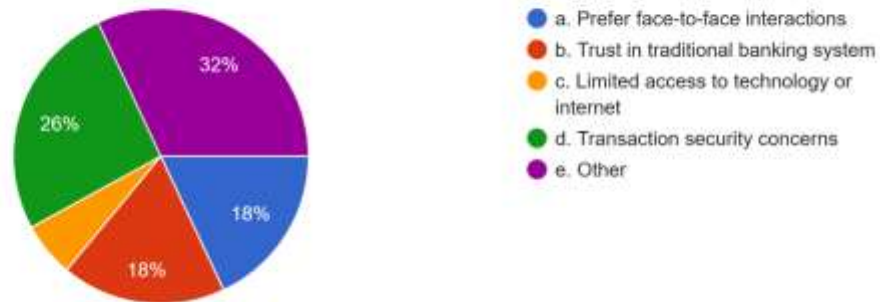
From the above table it can understand that 74% say yes, 26% says no.

INFERENCE

74% say YES.

11. What are the main reasons for using offline banking?

50 responses



SI NO	WHAT ARE THE MAIN REASON FOR USING OFFLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	PREFER FACE TO FACE	9	18
2	TRUST IN TRADITIONAL BANKING SYSTEM	9	18
3	LIMITED ACCESS TO TECHNOLOGY	3	6
4	TRANSACTION SECURITY CONCERNS	13	26
5	OTHER	16	32
TOTAL		50	100

INTERPRETATION

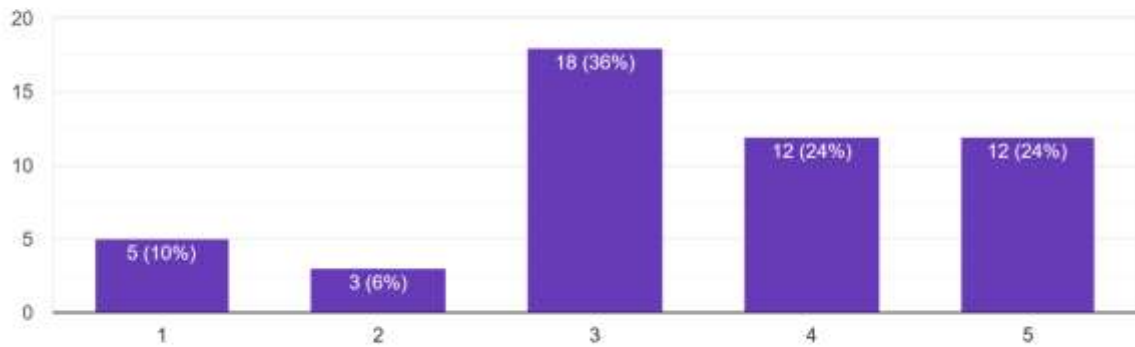
From the above table, it can understand that 18% prefer face to face, 18% trust in traditional banking system, 6% limited access to technology, 26% transaction security concerns, 32% others.

INFERENCE

32% says OTHERS.

12. On a scale of 1-5, how satisfied are you with your offline banking experience?

50 responses



SI NO	HOW SATISFIED ARE YOU WITH YOUR OFFLINE BANKING EXPERIENCE	NO OF RESPONSE	PERCENTAGE
1	Scale 1	5	10
2	Scale 2	3	6
3	Scale 3	18	36
4	Scale 4	12	24
5	Scale 5	12	24
TOTAL		50	100

INTERPRETATION

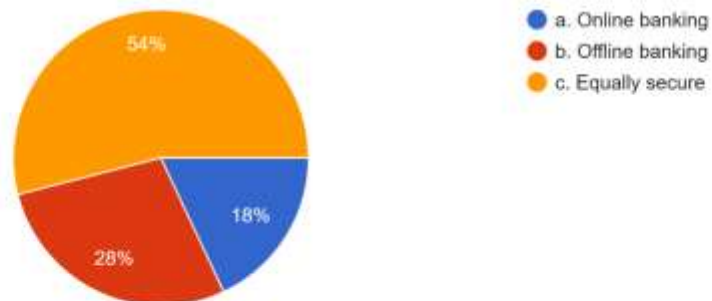
From the above table it can understand that 10% choose scale 1, 6% choose scale 2, 36% choose scale 3, 24% choose scale 4, 24% choose scale 5.

INFERENCE

36% choose SCALE 3.

13. In your opinion, which mode of banking is more secure?

50 responses



SI NO	WHICH MODE OF BANKING IS MORE SECURE	NO OF RESPONSE	PERCENTAGE
1	ONLINE BANKING	9	18
2	OFFLINE BANKING	14	28
3	EQUALLY SECURE	27	54
TOTAL		50	100

INTERPRETATION

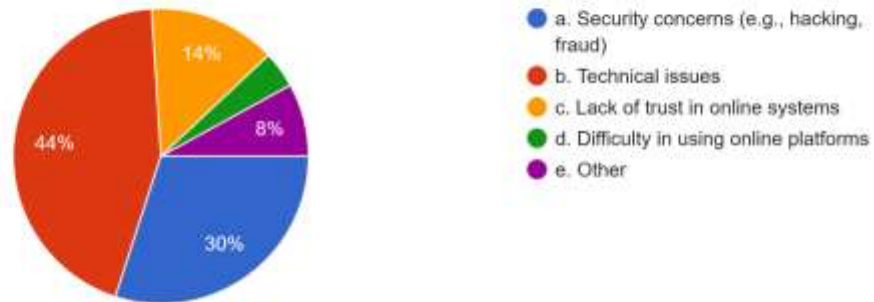
From the above table it can understand that 18% says online banking, 28 says offline banking, 54% says equally secure.

INFERENCE

54% says EQUALLY SECURE.

14. What challenges or concerns do you have with online banking?

50 responses



SI NO	WHAT CHALLENGES DO YOU HAVE WITH ONLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	SECURITY CONCERNS	15	30
2	TECHNICAL ISSUES	22	44
3	LACK OF TRUST IN ONLINE SYSTEMS	7	14
4	DIFFICULTY IN USING ONLINE PLATFORMS	2	4
5	OTHER	4	8
TOTAL		50	100

INTERPRETATION

From the above table it can understand that 30% says security concern, 44% says technical issues, 14% says lack of trust in online system, 4% says difficulty in using online platforms, 8% says other.

INFERENCE

44% says TECHNICAL ISSUES.

15. What challenges or concerns do you have with offline banking?

50 responses



SI NO	WHAT CHALLENGES DO YOU HAVE OFFLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	LONG WAIT	24	48
2	LIMITED BANKING HOURS	9	18
3	VISIT OF PHYSICAL BANK BRANCH	10	20
4	LACK OF PRIVACY DURING TRANSACTION	3	6
5	OTHER	4	8
TOTAL		50	100

INTERPRETATION

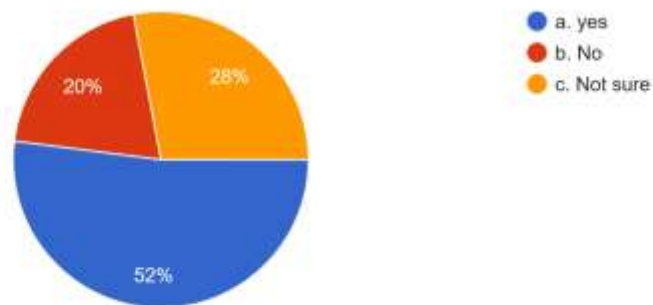
From the above table it can understand that, 48% says long wait, 18% says limited banking hours, 20% says visit of physical bank branch, 6% says lack of privacy during transaction, 8% says other.

INFERENCE

48% says LONG WAIT.

16. Do you think Offline banking is more secure in terms of protecting your personal and financial information compared to online banking?

50 responses



SI NO	DO OFFINE BANKING IS MORE SECURE THAN ONLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	YES	26	52
2	NO	10	20
3	NOT SURE	14	28
TOTAL		50	100

INTERPRETATION

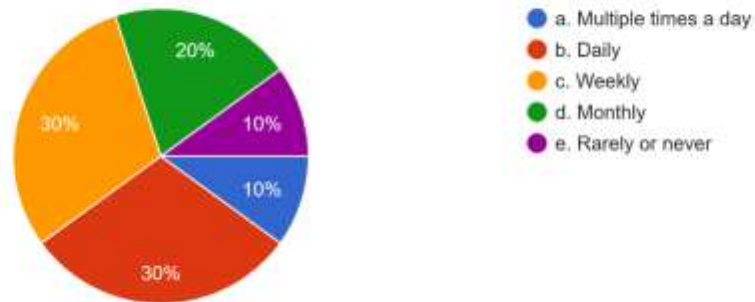
From the above table it can understand that, 52% says yes, 20% says no, 28% says not sure.

INFERENCE

52% says YES

17. How often do you use online banking services in a typical month?

50 responses



SI NO	HOW OFTEN DO YOU USE ONLINE BANKING SERVICE IN A TYPICAL MONTH	NO OF RESPONSE	PERCENTAGE
1	MULTIPLE TIMES	5	10
2	DAILY	15	30
3	WEEKLY	15	30
4	MONTHLY	10	20
5	RARELY	5	10
TOTAL		50	100

INTERPRETATION

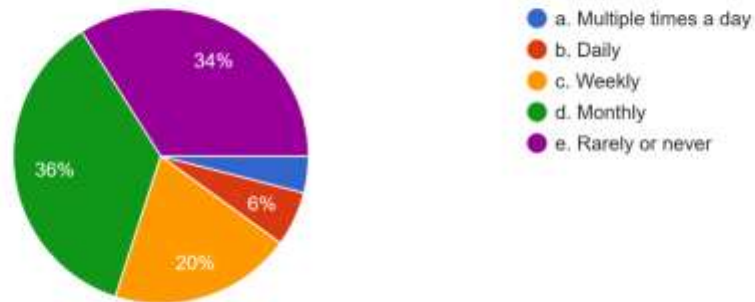
From the above table it can understand that 10% use multiple times, 30% use daily, 30% use weekly, 20% use monthly, 10% use rarely.

INFERENCE

Here, 30% use WEEKLY & DAILY.

18. How often do you use offline banking services in a typical month?

50 responses



SI NO	HOW OFTEN DO YOU USE OFFLINE BANKING SERVICE IN A TYPICAL MONTH	NO OF RESPONSE	PERCENTAGE
1	MULTIPLE TIMES	2	4
2	DAILY	3	6
3	WEEKLY	10	20
4	MONTHLY	18	36
5	RARELY	17	34
TOTAL		50	100

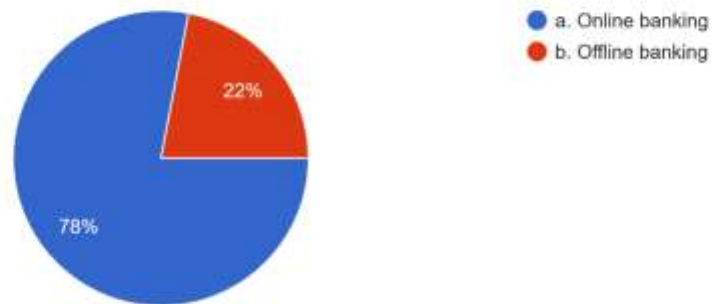
INTERPRETATION

From the above table it can understand that 4% use multiple times, 6% use daily, 20% use weekly, 36% use monthly, 34% use rarely.

INFERENCE

36% use MONTHLY.

19. In your opinion, which mode of banking is easy to use ?
50 responses



SI NO	WHICH MODE OF BANKING IS EASY TO USE	NO OF RESPONSE	PERCENTAGE
1	ONLINE BANKING	39	78
2	OFFLINE BANKING	11	22
TOTAL		50	100

INTERPRETATION

From the above table it can understand that 78% says online banking, 22% says offline banking.

INFERENCE

78% says ONLINE BANKING.

ANNOVA

Descriptives

Age

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
online banking	30	1.67	1.155	.667	-1.20	4.54	1	3
offline banking	20	1.50	.707	.500	-4.85	7.85	1	2
Total	50	1.60	.894	.400	.49	2.71	1	3

ANOVA

Age

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.033	10	.033	.032	.870
Within Groups	3.167	40	1.056		
Total	3.200	50			

HYPOTHESIS

H0 – there is no significant difference between the age of the customer and mode of banking which is easy to use.

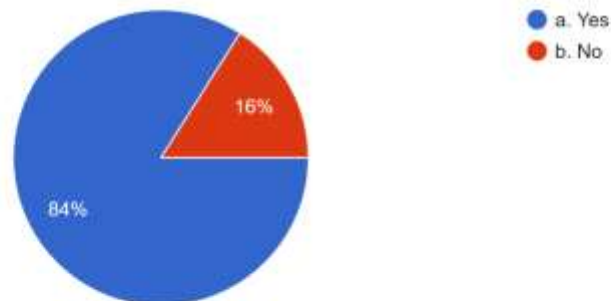
H1 – there is a significant difference between the age of the customer and mode of banking which is easy to use.

H0 – ACCEPTED

H1 - REJECTED

20. Do you think online banking is better substitute of offline banking system?

50 responses



SI NO	IS ONLINE BANKING IS BETTER SUBSTITUTE OF OFFLINE BANKING	NO OF RESPONSE	PERCENTAGE
1	YES	42	84
2	NO	8	16
TOTAL		50	100

INTERPRETATION

From the above table it can understand that 84% says yes, 16% says no.

INFERENCE

84% says YES.

ANNOVA

Descriptives

Age

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Yes	30	1.67	1.155	.667	-1.20	4.54	1	3
No	20	1.50	.707	.500	-4.85	7.85	1	2
Total	50	1.60	.894	.400	.49	2.71	1	3

ANOVA

Age

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.033	20	.033	.032	.870
Within Groups	3.167	30	1.056		
Total	3.200	50			

HYPOTHESIS

H0- there is no significant difference the age of the customer and better substitutive of online banking.

H1- there is a significant difference the age of the customer and better substitutive of online banking.

H0 – ACCEPTED

H1 - REJECTED

CHAPTER 5

SUMMARY OF FINDINGS, REFERENCE & CONCLUSION

Comparative Analysis of Results of Online and Offline Customer Satisfaction & Loyalty Surveys in Banking ...

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FINDINGS

70% are from age 1-25.

78% ARE FEMALE.

50% are EMPLOYED.

50% earnings are less than 20,000.

88% says YES for using online banking.

30% often use online mode of banking.

56% says CONVENIENCE is the reason for using online banking.

38% says for satisfaction in using online banking.

74% say YES for offline banking.

32% says OTHERS reason to use offline banking.

36% choose for satisfaction in using offline banking.

54% says EQUALLY SECURE security.

44% says TECHNICAL ISSUES is the challenges faced by online banking.

48% says LONG WAIT is the challenges faced by offline banking.

52% says YES offline banking is more secure than online banking.

30% people use online banking service WEEKLY & DAILY.

36% people use offline banking service MONTHLY.

78% says ONLINE BANKING is easiest way to use.

84% says YES for online banking is the better substitute for online banking.

SUGGESTION

1. **Security Education:** Since a significant portion believes offline banking is more secure, there may be misconceptions about online banking security. Banks should focus on educating users about the robust security measures in place for online transactions.
2. **Improve Technical Support:** Addressing technical issues is crucial. Banks should invest in enhancing the technical infrastructure to minimize disruptions and provide efficient technical support for users facing issues.
3. **Reduce Wait Times in Offline Banking:** To address the concern of long wait times in offline banking, banks should implement strategies to streamline processes and reduce waiting periods.
4. **Promote Online Banking Convenience:** Capitalize on the convenience factor that 56% of users appreciate. Banks can introduce more user-friendly features, apps, and services to enhance the overall convenience of online banking.
5. **Enhance Offline Banking Satisfaction:** Since 36% are satisfied with offline banking at a moderate level (Scale 3), efforts should be made to understand the reasons behind this satisfaction and further improve offline banking services.
6. **Target Specific Age Groups:** Given that 70% of users are aged 1-25, banks can tailor marketing and educational efforts to target this demographic, addressing their specific needs and concerns.

CONCLUSION

The data indicates a strong inclination towards online banking, especially among the younger age groups. While security concerns exist, a significant portion acknowledges the security of online banking. It is crucial for banks to address technical issues and improve support to enhance the overall online banking experience.

Offline banking still holds relevance, particularly for those who find it more secure or face challenges with online services. Efforts should be made to improve satisfaction levels in offline banking, especially by addressing long wait times.

The survey underscores the importance of convenience in online banking, and banks should continue to invest in user-friendly features. Additionally, understanding and addressing the specific concerns of different age groups can further enhance the overall banking experience.

In conclusion, a balanced approach that addresses security concerns, improves technical infrastructure, and tailors services to different age groups will likely yield the best results in meeting the diverse needs and preferences of banking customers.

ANNEXURE – QUESTIONNAIRE

1. Name :
2. Age:
3. Gender:
 - a. Male
 - b. Female
 - c. c. Other
4. Occupation:
 - a. Employed
 - b. Student
 - c. Self-employed
 - d. Retired
 - e. Other (please specify)
5. In which bank do you have account?
 - a. SBI
 - b. ICICI
 - c. HDFC
 - d. UCO
 - e. Others
6. Do you use online or offline banking ?
 - a. Online banking
 - b. Offline banking
7. What online banking platforms do you use?
 - a. Mobile banking apps
 - b. Internet banking through a computer
 - c. Other

8. What are the main reasons for using online banking?
- a. Convenience (24/7 access)
 - b. Ease of transactions (e.g., fund transfers, bill payments)
 - c. Faster transactions
 - d. Better access to account information
 - e. Mobile app features (e.g., fingerprint login, alerts)
 - f. Security features
 - g. Preference for digital transactions
 - h. Other

9. On a scale of 1-5, how satisfied are you with your online banking experience?
- 1. (Extremely dissatisfied)
 - 2. (Dissatisfied)
 - 3. (Neutral)
 - 4. (Satisfied)
 - 5. (Extremely satisfied)

10. Do you use offline banking services? (e.g., visiting a bank branch, ATM transactions)
- a. Yes
 - b. No

11. What are the main reasons for using offline banking?
- a. Prefer face-to-face interactions
 - b. Trust in traditional banking system
 - c. Limited access to technology or internet
 - d. Transaction security concerns
 - e. Habit or preference for physical transactions
 - f. Other

12. On a scale of 1-5, how satisfied are you with your offline banking experience?

1. (Extremely dissatisfied)
2. (Dissatisfied)
3. (Neutral)
4. (Satisfied)
5. (Extremely satisfied)

13. In your opinion, which mode of banking (online or offline) is more secure?

- a. Online banking
- b. Offline banking
- c. Equally secure

14. What challenges or concerns do you have with online banking?

- a. Security concerns (e.g., hacking, fraud)
- b. Technical issues
- c. Lack of trust in online systems
- d. Difficulty in using online platforms
- e. Other

15. What challenges or concerns do you have with offline banking?

- a. Long waiting times at bank branches/ATMs
- b. Limited banking hours
- c. Inconvenience of visiting a physical bank branch
- d. Lack of privacy during transactions
- e. Other

16. Do you think traditional (offline) banking is more secure in terms of protecting your personal and financial information compared to online banking?

- a. yes
- b. No
- c. Not sure

17. How often do you use online banking services in a typical month?

- a. Multiple times a day
- b. Daily
- c. Weekly
- d. Monthly
- e. Rarely or never

18. How often do you use offline banking services in a typical month?

- a. Multiple times a day
- b. Daily
- c. Weekly
- d. Monthly
- e. Rarely or never

19. In your opinion, which mode of banking (online or offline) is easy to use ?

- a. Online banking
- b. Offline banking

20. Do you think online banking is better substitute of offline banking system?

- a. Yes
- b. No