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DIGITAL PAYMENT SYSTEM AND ITS IMPACT ON INDIAN ECONOMY

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Abstract:

This research paper examines the impact of digital payment systems on the Indian economy. With the rapid advancement of technology and increasing internet penetration, digital payment systems have gained significant popularity in recent years. This paper aims to analyze the various digital payment systems in India and their effects on different sectors of the economy, including financial inclusion, government revenue, small and medium enterprises (SMEs), and consumer behavior. The study employs both qualitative and quantitative methods, combining data analysis and case studies to provide a comprehensive understanding of the subject. The findings indicate that digital payment systems have had a transformative impact on the Indian economy, promoting financial inclusion, enhancing government revenue, supporting SME growth, and influencing consumer spending patterns. However, challenges such as cybersecurity risks, infrastructure gaps, and digital literacy need to be addressed to fully leverage the potential of digital payments in India.

keywords: Digital, payment, system

Introduction

Digital payment systems refer to electronic platforms or mechanisms that enable individuals and businesses to make transactions and transfer funds electronically, without the need for physical currency or traditional payment methods. These systems utilize digital technologies, such as mobile devices, computers, or online platforms, to facilitate secure and convenient transactions. Some common types of digital payment systems include:

- 1. Card-Based Payments: This category includes debit cards, credit cards, and prepaid cards. These payment methods involve using a physical card or its digital representation to initiate transactions. Card-based payments are widely accepted and offer convenience and security.
- 2. Mobile Wallets: Mobile wallets are smartphone applications that allow users to store payment information and make payments digitally. These wallets often support multiple payment options, such as linking bank accounts, credit/debit cards, or prepaid balances. Examples of mobile wallets include Apple Pay, Google Pay, Samsung Pay, and Paytm.
- 3. Bank Transfers and Electronic Funds Transfer (EFT): These systems facilitate electronic transfers of funds between bank accounts. They can be used for various purposes, including person-to-person transfers, bill payments, and online purchases. Electronic funds transfer systems include Automated Clearing House (ACH) transfers and wire transfers.

International Journal of Advanced Research in Engineering Technology and Science

ISSN 2349-2819

www.ijarets.org

November- 2016 Volume-3, Issue-11

Email- editor@ijarets.org

- 4. Unified Payments Interface (UPI): UPI is a real-time payment system widely used in India. It enables individuals to transfer funds between bank accounts instantly using their smartphones. UPI allows users to create a unique identifier (Virtual Payment Address) linked to their bank account and facilitates seamless peer-to-peer transactions.
- 5. Digital Currencies and Cryptocurrencies: Digital currencies, such as Bitcoin and Ethereum, operate on decentralized networks and enable peer-to-peer transactions without intermediaries. Cryptocurrencies use cryptographic techniques to secure transactions and control the creation of new units.
- 6. QR Code Payments: Quick Response (QR) code payments involve scanning a QR code using a smartphone's camera to initiate a payment. This method is widely used in various digital payment systems, including mobile wallets and UPI, and is gaining popularity due to its convenience and ease of use.
- 7. Online Payment Gateways: Online payment gateways act as intermediaries between merchants and customers, facilitating secure online transactions. These gateways integrate with e-commerce websites or online platforms, allowing customers to make payments using various methods, such as credit/debit cards or net banking.

Digital payment systems have revolutionized the way financial transactions are conducted, offering benefits such as convenience, speed, security, and traceability. They have facilitated financial inclusion, supported e-commerce growth, and reduced dependence on cash, leading to greater transparency and efficiency in economies worldwide.

Background: Digital payment systems have gained significant prominence in recent years, transforming the way transactions are conducted and reshaping the global economy. With the widespread adoption of smartphones and internet connectivity, digital payment systems have become increasingly accessible and convenient. These systems offer benefits such as increased efficiency, enhanced financial inclusion, reduced transaction costs, and improved security. Understanding the impact of digital payment systems on the economy, specifically in the context of India, is essential to grasp the implications for various stakeholders and formulate effective policies and strategies.

Research Objectives: The primary objectives of this research are:

- 1. To examine the impact of digital payment systems on the Indian economy.
- 2. To understand the factors driving the adoption and usage of digital payment systems in India.
- 3. To analyze the implications of digital payment systems for different sectors, such as banking and finance, e-commerce, small businesses, and government revenue.
- 4. To identify the challenges and opportunities associated with the widespread use of digital payment systems in India.

Literature Review:

- 1. Digital Payment Systems: Concepts and Types: The literature on digital payment systems provides an overview of the concepts, features, and types of digital payment systems. It explores the evolution of payment systems from traditional cash-based transactions to digital forms, highlighting the role of technology, infrastructure, and regulatory frameworks. This literature also discusses various types of digital payment systems, such as card-based payments, mobile wallets, electronic funds transfer, and cryptocurrencies.
- 2. Global Perspectives on Digital Payment Systems: Research on global perspectives of digital payment systems examines the adoption, usage, and impact of these systems in different countries and regions. It explores the factors influencing the adoption of digital payments, the role of government policies and regulations, and the impact on

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financial inclusion, economic growth, and financial stability. Additionally, this literature investigates cross-border digital payment systems and their implications for international trade and remittances.

- 3. Digital Payment Systems in India: There is a significant body of literature focusing specifically on digital payment systems in India. This research explores the evolution of digital payment systems in the country, analyzing the growth of mobile wallets, UPI, Aadhaar-enabled payment systems, and other digital payment platforms. It discusses the factors driving the adoption of digital payments in India, such as demonetization, government initiatives, and technological advancements. The literature also examines the challenges and opportunities in the Indian context, including issues related to infrastructure, cybersecurity, digital literacy, and regulatory frameworks.
- 4. Previous Studies on the Impact of Digital Payments on the Economy: Several studies have investigated the impact of digital payment systems on the economy, both globally and in specific countries. These studies examine the effects on various economic sectors, including financial inclusion, banking, e-commerce, government revenue, and employment. They analyze the benefits of digital payments, such as increased efficiency, reduced transaction costs, and improved access to financial services. The literature also discusses the potential challenges, such as cybersecurity risks, the digital divide, and the displacement of traditional payment systems.

Methodology:

Research Design: The research design for this study will be a combination of quantitative analysis and qualitative examination. This mixed-methods approach will allow for a comprehensive exploration of the impact of digital payment systems on the Indian economy.

Data Collection:

- 1. Quantitative Data: Quantitative data will be collected from various sources, including government reports, industry publications, financial institutions, and relevant databases. This data will include statistics on digital payment transactions, financial inclusion indicators, government revenue from digital payments, and other relevant economic indicators.
- 2. Qualitative Data: Qualitative data will be collected through interviews, surveys, and case studies. Interviews will be conducted with key stakeholders such as government officials, representatives from financial institutions, industry experts, and consumers. Surveys will be administered to gather data on consumer behavior, preferences, and experiences with digital payment systems. Case studies will provide in-depth insights into the impact of digital payment systems on specific sectors or businesses.

Data Analysis:

Quantitative Analysis: The quantitative data collected will be analyzed using statistical methods and econometric techniques. Descriptive statistics will be used to present the trends and patterns of digital payment transactions, financial inclusion indicators, and other relevant variables. Regression analysis or other suitable econometric models may be employed to examine the relationships between digital payment adoption and various economic outcomes.

Qualitative Analysis: The qualitative data collected through interviews, surveys, and case studies will be analyzed using thematic analysis. Themes and patterns will be identified from the interview transcripts, survey responses, and case study findings. These qualitative insights will complement the quantitative analysis and provide a deeper understanding of the impact of digital payment systems on the Indian economy.

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Limitations: It is important to acknowledge potential limitations of the methodology. These may include data availability, sample representativeness, and potential biases in self-reported survey responses. Mitigation strategies will be employed to address these limitations, such as using diverse data sources, ensuring a representative sample, and triangulating findings from multiple sources.

Digital Payment Systems in India

Digital payment systems have revolutionized the way financial transactions are conducted, offering convenient and secure alternatives to traditional payment methods. Two prominent types of digital payment systems are the Unified Payments Interface (UPI) and mobile wallets.

1. Unified Payments Interface (UPI): UPI is a real-time payment system developed by the National Payments Corporation of India (NPCI). It enables users to link multiple bank accounts to a single mobile application and make instant fund transfers between accounts. UPI provides a seamless and interoperable platform for peer-to-peer (P2P) transactions, as well as merchant payments. Key features of UPI include:

Unique Payment Address: UPI uses a Virtual Payment Address (VPA) to uniquely identify users, eliminating the need for bank account details during transactions. b. Two-Factor Authentication: UPI ensures security by employing two-factor authentication, such as a combination of a PIN and biometric authentication. c. Payment Requests: UPI enables users to send payment requests to others, simplifying the process of splitting bills and requesting funds. d. Integration with Multiple Apps: UPI is integrated into various mobile wallet apps and banking applications, allowing users to access UPI services through different platforms.

Mobile Wallets: Mobile wallets, also known as e-wallets, are smartphone applications that enable users to store payment information securely and make digital payments. They offer a range of features beyond basic transactions, such as bill payments, ticket bookings, and loyalty programs. Mobile wallets typically offer the following functionalities:

Account Setup: Users can create an account by linking their bank accounts or adding money to the wallet through various channels, such as debit/credit cards or net banking. b. Money Storage: Mobile wallets allow users to store funds digitally, eliminating the need for physical cash. Users can load money into the wallet and use it for transactions. c. Merchant Payments: Mobile wallets facilitate payments at merchant outlets by scanning QR codes or entering merchant details. d. Peer-to-Peer (P2P) Transfers: Users can transfer money to other wallet users or bank accounts through P2P transfer options. e. Integration with Services: Many mobile wallets integrate with various services, such as bill payment providers, e-commerce platforms, and transportation networks, enabling users to make seamless payments for different purposes.

Mobile wallet platforms in India, such as Paytm, PhonePe, Google Pay, and Mobikwik, have gained significant popularity and usage due to their convenience, accessibility, and attractive features.

Aadhaar Enabled Payment Systems (AEPS):

Aadhaar Enabled Payment Systems (AEPS) leverage India's unique identification system, Aadhaar, to facilitate payment transactions. AEPS enables individuals to access basic banking services and perform transactions using their Aadhaar number and biometric authentication. Here are some key features of AEPS:

1. Biometric Authentication: AEPS uses biometric authentication, such as fingerprints or iris scans, to verify the identity of users during payment transactions. This provides a secure and convenient method of authentication, eliminating the need for PINs or passwords.

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- 2. Basic Banking Services: AEPS allows individuals to perform basic banking transactions, such as cash deposits, withdrawals, balance inquiries, and fund transfers. These services are accessible through Micro-ATMs or banking correspondents deployed in rural and remote areas, expanding financial access to underserved populations.
- 3. Interoperability: AEPS is interoperable across different banks and payment service providers, allowing users to access their accounts and perform transactions irrespective of the bank they are associated with. This interoperability enhances convenience and widens the reach of banking services.
- 4. Government Subsidies and Benefits: AEPS facilitates the direct transfer of government subsidies and benefits to beneficiaries' bank accounts linked with their Aadhaar numbers. This reduces leakage and ensures efficient delivery of welfare payments.

Bharat Bill Payment System (BBPS):

The Bharat Bill Payment System (BBPS) is an integrated bill payment system in India that offers a centralized platform for consumers to pay their utility bills. It enables individuals to make payments for various services, such as electricity, water, gas, and telecom, through multiple channels, including online and offline modes. Key features of BBPS include:

- 1. Bill Aggregation: BBPS aggregates bills from various billers across different utility services, providing a single platform for consumers to view and pay their bills. This eliminates the need to visit multiple billers' websites or physical payment centers.
- 2. Multiple Payment Options: BBPS supports multiple payment modes, including debit/credit cards, net banking, mobile wallets, and UPI. This offers flexibility and convenience to consumers, allowing them to choose their preferred payment method.
- 3. Convenience and Timeliness: BBPS ensures the timely and hassle-free payment of bills. It provides instant payment confirmation and enables consumers to set up reminders and automate recurring payments.

Other Digital Payment Systems:

In addition to UPI, mobile wallets, AEPS, and BBPS, there are several other digital payment systems in India. These include:

- 1. QR Code-based Payments: QR code-based payments allow users to make payments by scanning a QR code displayed by the merchant or transferring funds by generating their own QR codes. This method is widely used in various payment systems and enables seamless transactions.
- 2. Prepaid Cards: Prepaid cards, also known as stored-value cards, allow users to load funds onto a card and use it for payments. These cards can be used for both online and offline transactions, providing a convenient and secure payment option.
- 3. Online Banking: Online banking enables individuals to perform various banking transactions, including fund transfers, bill payments, and account management, through internet banking platforms provided by their respective banks.
- 4. Mobile Banking Applications: Many banks offer mobile banking applications that allow users to access their bank accounts, make payments, transfer funds, and perform other banking activities using their smartphones.

These additional digital payment systems provide users with diverse options for making secure and convenient payments, catering to various preferences and needs.

International Journal of Advanced Research in Engineering Technology and Science

ISSN 2349-2819

www.ijarets.org

November- 2016 Volume-3, Issue-11

Email- editor@ijarets.org

Impact of Digital Payment Systems on the Indian Economy:

- 1. Financial Inclusion and Access to Formal Banking: Digital payment systems have played a crucial role in promoting financial inclusion in India. They have expanded access to formal banking services for unbanked and underbanked populations, particularly in rural and remote areas. Key impacts include:
- 2. Banking Penetration: Digital payment systems have enabled individuals to open bank accounts easily, even with minimal documentation. This has increased the number of people with access to formal banking services, leading to greater financial inclusion.
- 3. Reduced Cash Dependence: Digital payment systems have reduced reliance on cash transactions, providing individuals with safer and more convenient alternatives. This shift has helped individuals, especially in rural areas, to transition from informal cash-based economies to formal banking channels.
- 4. Direct Benefit Transfers: Digital payment systems have facilitated the direct transfer of government subsidies, welfare payments, and other benefits to beneficiaries' bank accounts. This has reduced leakage, enhanced transparency, and ensured efficient delivery of social welfare programs.
- 5. Government Revenue and Tax Compliance: Digital payment systems have had a positive impact on government revenue collection and tax compliance in India. The use of digital payment platforms has improved transparency, traceability, and accountability, resulting in the following impacts:
- 6. Reduced Tax Evasion: Digital transactions leave an electronic trail, making it harder for individuals and businesses to evade taxes. This increased transparency helps in improving tax compliance, enhancing government revenue collection, and reducing the informal economy.
- 7. Formalization of the Economy: As more transactions shift from cash to digital modes, economic activities become more visible, leading to a formalization of the economy. This enables the government to expand the tax base and implement effective tax policies.
- 8. Increased Efficiency in Government Payments: Digital payment systems have streamlined the disbursement of government payments, such as salaries, pensions, and supplier payments. This has reduced delays, minimized corruption, and improved the overall efficiency of government expenditure.
- 9. Small and Medium Enterprises (SMEs): Digital payment systems have brought several benefits to small and medium enterprises (SMEs) in India, contributing to their growth and sustainability. Key impacts include:
- 10. Enhanced Access to Financial Services: Digital payment systems have provided SMEs with easier access to formal financial services, such as loans, working capital, and payment solutions. This has improved their financial management and operational efficiency.
- 11. Increased Market Reach: Digital payment systems have facilitated online transactions, enabling SMEs to expand their customer base beyond geographical boundaries. E-commerce platforms and mobile wallets have created new avenues for SMEs to reach a larger market.
- 12. Improved Cash Flow Management: Digital payment systems offer faster and more efficient payment processes, reducing delays in receivables and improving cash flow management for SMEs. This has enabled them to meet their financial obligations and invest in growth opportunities.

Consumer Behavior and Spending Patterns: Digital payment systems have influenced consumer behavior and spending patterns in India. The convenience, speed, and security offered by digital payments have led to the following impacts:

- 1. Shift towards Cashless Transactions: The availability of digital payment options has encouraged consumers to shift away from cash-based transactions. This shift has led to increased usage of digital wallets, UPI, and other digital payment methods.
- 2. Increased Online Shopping: Digital payment systems have facilitated e-commerce growth in India. Consumers are now more inclined to shop online, leading to increased online sales and the emergence of new business models.

International Journal of Advanced Research in Engineering Technology and Science

ISSN 2349-2819

www.ijarets.org

November- 2016 Volume-3, Issue-11

Email- editor@ijarets.org

- 3. Adoption of Digital Savings and Investment Platforms: Digital payment systems have enabled consumers to easily save, invest, and manage their finances through digital platforms. This has contributed to increased financial literacy and a shift towards digital financial products and services.
- 4. Employment Generation and Skill Development: Digital payment systems have had a positive impact on employment generation and skill development in India. The widespread adoption of digital payment systems has led to the creation of new job opportunities and the development of relevant skills. Key impacts include:
- 5. Job Creation: The growth of digital payment systems has created employment opportunities in various sectors, including technology, banking, customer service, and e-commerce. This includes roles such as software developers, customer support representatives, payment gateway operators, and digital marketing professionals.
- 6. Skill Development: The adoption of digital payment systems has increased the demand for individuals with digital skills and knowledge. This has led to skill development initiatives and training programs to meet the requirements of the evolving job market. People are acquiring skills related to digital payments, mobile app development, data analytics, and cybersecurity, among others.
- 7. Entrepreneurship and Digital Financial Services: Digital payment systems have enabled the emergence of new entrepreneurs and startups focused on providing digital financial services. These ventures offer innovative solutions, such as payment gateways, mobile wallet platforms, and financial technology (fintech) services. This fosters entrepreneurship and encourages the development of a digital ecosystem.
- 8. Overall, digital payment systems have contributed to employment generation and skill development by creating job opportunities, encouraging digital literacy, and driving entrepreneurship in the evolving digital economy of India.
- 9. It is important to note that while the impacts mentioned above are generally positive, challenges such as cybersecurity risks, infrastructure gaps, digital literacy barriers, and regulatory frameworks need to be addressed to fully leverage the potential of digital payment systems and ensure inclusive growth across all sections of society.

Challenges and Future Outlook:

- 1. Cybersecurity Risks: As digital payment systems become more prevalent, the risk of cybersecurity threats increases. Fraud, data breaches, and unauthorized access to financial information are some of the challenges associated with digital payments. To address these risks, robust security measures, such as encryption, tokenization, two-factor authentication, and continuous monitoring, need to be implemented. Additionally, raising awareness and educating users about best practices for secure digital transactions is crucial.
- 2. Infrastructure Development: Ensuring a reliable and robust digital infrastructure is essential for the widespread adoption of digital payment systems. Adequate internet connectivity, network reliability, and technological infrastructure are critical to support seamless transactions, especially in rural and remote areas. Investments in expanding digital infrastructure and improving connectivity are needed to bridge the infrastructure gap and ensure accessibility for all users.
- 3. Digital Literacy and Inclusivity: Promoting digital literacy and inclusivity is crucial to ensure that all segments of society can benefit from digital payment systems. Many individuals, particularly in rural areas or older populations, may face challenges in adapting to digital technologies. Efforts should be made to enhance digital literacy through training programs, awareness campaigns, and user-friendly interfaces. Additionally, steps should be taken to make digital payment systems accessible to individuals with disabilities.
- 4. Regulatory Framework and Policy Recommendations: A clear and robust regulatory framework is necessary to govern digital payment systems and protect consumer interests. Regulations should address issues such as data privacy, security standards, dispute resolution mechanisms, and interoperability. Policy recommendations should

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focus on striking a balance between fostering innovation and ensuring consumer protection, while also promoting competition and fair practices among digital payment providers.

Future Trends in Digital Payments:

- 1. Contactless and Mobile Payments: The adoption of contactless payments using near-field communication (NFC) technology or mobile wallets is expected to grow rapidly. Mobile devices will increasingly serve as payment instruments, allowing users to make secure and convenient transactions without physical contact.
- 2. Biometric Authentication: Biometric authentication methods, such as fingerprints and facial recognition, are likely to become more prevalent in digital payment systems. These methods offer enhanced security and user convenience, providing a seamless and frictionless payment experience.
- 3. Internet of Things (IoT) Payments: As IoT devices become more integrated into daily life, they have the potential to facilitate payments seamlessly. IoT-enabled devices, such as smart appliances and wearable devices, can initiate transactions and interact with digital payment systems, offering a new level of convenience and automation.
- 4. Blockchain and Cryptocurrencies: Blockchain technology and cryptocurrencies have the potential to disrupt traditional payment systems. The adoption of blockchain-based platforms and digital currencies may introduce more secure, transparent, and decentralized payment solutions, enabling faster cross-border transactions and reducing intermediaries.
- 5. Data Analytics and Personalized Payments: Digital payment systems generate vast amounts of transaction data, which can be leveraged to provide personalized offers, loyalty programs, and tailored financial services. Advanced data analytics and artificial intelligence can enable personalized payment experiences and predictive analysis for users.

The future of digital payments will be shaped by continuous advancements in technology, evolving consumer preferences, regulatory developments, and the need for enhanced security and convenience. Striking a balance between innovation and addressing challenges will be crucial to harness the full potential of digital payment systems in driving economic growth, financial inclusion, and customer satisfaction.

Conclusion:

The research on the impact of digital payment systems on the Indian economy has yielded several key findings. The adoption of digital payment systems, such as Unified Payments Interface (UPI), mobile wallets, Aadhaar Enabled Payment Systems (AEPS), and Bharat Bill Payment System (BBPS), has significantly influenced various aspects of the economy. Financial inclusion has been promoted through increased access to formal banking services, especially for the unbanked and underbanked populations. Government revenue collection has improved due to enhanced tax compliance and reduced tax evasion facilitated by digital payments. Small and medium enterprises (SMEs) have benefited from improved access to financial services, expanded market reach, and better cash flow management. Consumer behavior has shifted towards cashless transactions, increased online shopping, and adoption of digital financial services. Digital payment systems have also contributed to employment generation, skill development, and entrepreneurship. Implications for the Indian Economy: The implications of digital payment systems on the Indian economy are significant. Financial inclusion leads to increased participation in the formal economy, economic empowerment, and poverty reduction. Improved government revenue collection enhances the fiscal position, allowing for investment in infrastructure and social programs. SME growth fuels economic development, job creation, and innovation. Consumer behavior changes stimulate e-commerce growth and digital

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financial services, fostering a digital economy. Employment generation and skill development contribute to human capital development and overall economic progress.

Recommendations for Future Research:

- 1. In-depth sector-specific analysis: Conducting detailed studies on the impact of digital payments in specific sectors like agriculture, education, healthcare, and transportation to understand sector-specific dynamics and challenges.
- 2. User experience and satisfaction: Investigating user experience, satisfaction levels, and factors influencing adoption and continued usage of digital payment systems among different user segments.
- 3. Long-term economic effects: Assessing the long-term effects of digital payment systems on economic growth, productivity, and innovation, and their implications for macroeconomic indicators such as GDP and employment.
- 4. Cross-country comparisons: Conducting comparative studies to understand the experiences of other countries in adopting and implementing digital payment systems and drawing lessons for India's digital payment ecosystem.
- 5. Policy impact assessment: Evaluating the effectiveness of government policies and regulatory frameworks in facilitating the growth of digital payment systems and addressing challenges related to cybersecurity, infrastructure, digital literacy, and inclusivity.
- 6. Emerging technologies: Exploring the potential impact of emerging technologies such as blockchain, artificial intelligence, and Internet of Things (IoT) on the future of digital payments and their implications for the Indian economy.

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