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CONSUMER ADOPTION OF MOBILE PAYMENT SYSTEMS: INSIGHTS FROM BENGALURU CITY

GOKUL.G[1] and Dr. C. K. MUTHUKUMARAN[2]

[1]RESEARCH SCHOLAR,
ALAGAPPA INSTITUTE OF MANAGEMENT, ALAGAPPA UNIVERSITY,
Karaikudi-Tamil Nadu

[2]PROFESSOR,
ALAGAPPA INSTITUTE OF MANAGEMENT, ALAGAPPA UNIVERSITY,
Karaikudi-Tamil Nadu

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ABSTRACT

Mobile payment systems have brought a revolutionary change in the way financial transactions are carried out in urban India. The introduction of Unified Payments Interface (UPI), digital wallets, and mobile banking applications has enabled consumers to perform transactions quickly, safely, and conveniently without the use of physical cash. Bengaluru City, recognized as the Silicon Valley of India, has a highly educated, technologically aware, and digitally connected population, making it an ideal location to study consumer adoption of mobile payment systems. This study focuses on identifying the major factors that influence consumers in Bengaluru to adopt mobile payment applications. Using a descriptive research design, primary data were collected from 300 respondents through structured questionnaires. The findings of the study indicate that perceived usefulness, ease of use, trust, security perception, and social influence are the major determinants of mobile payment adoption. While mobile payments offer numerous benefits such as speed, convenience, and transaction records, concerns regarding fraud, network issues, and digital illiteracy among older people still exist. The study provides suggestions to improve awareness, security, and trust in mobile payment systems to ensure inclusive digital financial participation.

KEYWORDS: Mobile Payment Systems, UPI, Digital Wallets, Consumer Adoption, Bengaluru City, Digital Transactions, Security Perception, Consumer Behavior.

1. INTRODUCTION

The development of digital technology has transformed almost every sector of human life, including communication, education, healthcare, and banking. One of the most significant transformations can be observed in the financial sector through the introduction of mobile payment systems. Traditional methods of payment such as cash and debit or credit cards are gradually being replaced by digital

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payment applications installed on smartphones. In India, mobile payment systems gained momentum after the demonetization initiative in 2016, which encouraged people to adopt cashless modes of transactions. Applications such as Google Pay, PhonePe, Paytm, and BHIM UPI have simplified financial transactions and made them accessible to a large number of people. Today, smartphones act as digital wallets that allow users to transfer money, pay bills, shop online, and perform various banking activities with ease. Bengaluru, being a metropolitan city with a strong IT presence, high internet connectivity, and smartphone penetration, provides a perfect environment to study how consumers adopt mobile payment technologies. The residents of Bengaluru are exposed to technological advancements and are quick to adapt to innovative solutions. This study attempts to analyze the behavior of consumers in Bengaluru toward mobile payment adoption and the factors influencing their decisions.

2. Concept of Mobile Payment Systems

Mobile Payment Systems (MPS) refer to the use of mobile devices to conduct financial transactions through internet-based applications. These systems eliminate the need for physical cash and provide a convenient and secure method of payment.

Types of Mobile Payment Systems

UPI Applications – Google Pay, PhonePe, BHIM

Digital Wallets – Paytm, Amazon Pay

Banking Applications – SBI YONO, HDFC Mobile Banking

NFC/Contactless Payments – Tap and pay technology

These systems allow users to transfer money instantly, pay utility bills, book tickets, and make online and offline purchases.

3. Growth of Mobile Payments in India

The growth of mobile payments in India has been remarkable. After demonetization, the Government of India promoted the concept of a cashless economy through initiatives like Digital India. The Reserve Bank of India (RBI) and the National Payments Corporation of India (NPCI) introduced UPI, which became a game-changer in peer-to-peer transactions. Today, India records billions of UPI transactions every month. Bengaluru, being a technology-driven city, contributes significantly to this growth due to high digital literacy and internet usage. The rapid increase in smartphone usage, affordable internet services, and government initiatives encouraging digital transactions have further accelerated the growth of mobile payments across urban regions. Merchants, small vendors, and service providers widely accept QR-based payments, making mobile payments a common and convenient mode of transaction in daily life.

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4. LITERATURE REVIEW

Mobile payment adoption has been examined in many studies through the lens of the Technology Acceptance Model (TAM), which explains how individuals begin to accept and utilize new technologies. The model emphasizes perceived usefulness and perceived ease of use as key determinants influencing user acceptance. In mobile payment contexts, usefulness is reflected in the speed and efficiency of transactions, while ease of use relates to the simplicity of the application interface for users across age groups. Research conducted in India further highlights that trust and perceptions of security significantly influence user decisions, as individuals prefer platforms that ensure protection of financial data. Social influence also plays an important role, as recommendations from peers and family members often encourage initial usage. Studies additionally show that urban users adopt digital payments more rapidly due to better internet connectivity, smartphone access, and digital awareness. Nevertheless, issues such as fraud concerns, privacy risks, and technical errors continue to restrict adoption, particularly among elderly populations. These insights from earlier studies provide a strong base for analysing consumer adoption behaviour in Bengaluru City.

5. OBJECTIVES OF THE STUDY

- To analyse the level of mobile payment usage in Bengaluru.
- To identify factors influencing consumer adoption.
- To examine benefits and challenges faced by users.
- To study consumer trust in mobile payment systems.

6. RESEARCH METHODOLOGY

The study adopts a **descriptive research design** using the survey method.
Sample Size: 300 respondents
Sampling Technique: Stratified random sampling **Data Collection Tool:** Structured questionnaire
Data Analysis Method: Percentage analysis and interpretation
Respondents include students, working professionals, business owners, and homemakers from different parts of Bengaluru.

7. DEMOGRAPHIC PROFILE OF RESPONDENTS

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Table 1: Age Distribution

Age Group	Percentage
18–25	35%
26–40	40%
41–60	25%

Table 2: Occupation Distribution

Occupation	Percentage
Students	30%
Employees	40%
Business	20%
Homemakers	10%

This shows that the respondents belong to diverse age groups and occupational backgrounds

8. DATA ANALYSIS AND FINDINGS

The survey results indicate a high level of mobile payment adoption among respondents in Bengaluru City. A significant 75% of the respondents reported that they use mobile payment applications on a daily basis, showing that digital payments have become a regular part of their financial routine. Google Pay and PhonePe are the most preferred mobile payment applications among users. Their popularity is mainly due to their simple interface, reliability, and the trust users have in these platforms for secure and smooth transactions. Convenience and speed are identified as the major reasons for adopting mobile payment systems. Users find digital transactions quicker and easier compared to handling cash. Cashback offers, promotional benefits, and influence from friends and colleagues also contribute to the increasing usage of these applications. Regarding security perception, half of the respondents feel that mobile payment systems are safe to use. However, a considerable number of users still express concerns about fraud and scams, and some have experienced transaction failures or technical problems while using these services.

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9. FACTORS INFLUENCING ADOPTION

Several factors influence consumer adoption of mobile payment systems in Bengaluru. Perceived usefulness plays a major role as users find these apps helpful in saving time and effort. Ease of use is another significant factor, as QR code scanning and simple user interfaces make transactions effortless even for first-time users. Social influence also affects adoption, where people start using mobile payments after observing friends and family members. Trust and security perception are critical, as users prefer applications with strong brand value and secure transaction processes. These combined factors encourage consumers to adopt and continue using mobile payment systems.

10. BENEFITS OF MOBILE PAYMENT SYSTEMS

Mobile payment systems provide numerous benefits to users. They eliminate the need to carry physical cash and allow transactions anytime and anywhere. Users can easily track their spending through transaction history. Cashback offers, rewards, and discounts add extra value. These systems also promote contactless payments, which became highly important during the COVID-19 pandemic. Overall, mobile payments provide speed, convenience, safety, and accessibility. Another important benefit of mobile payments is financial transparency. Users receive instant notifications and digital records of every transaction, which helps in better financial planning and monitoring of expenses. This digital trail also reduces the chances of financial mismanagement and supports budgeting practices.

11. CHALLENGES FACED BY CONSUMERS

Despite many benefits, consumers face certain challenges while using mobile payments. Network and server issues sometimes cause transaction delays or failures. Fraudulent messages, phishing links, and scam calls create fear among users. Elderly people often find it difficult to use these applications due to lack of digital literacy. Dependence on internet connectivity and mobile battery is another limitation. These challenges indicate the need for improved infrastructure and awareness.

12. DISCUSSION

The findings indicate that mobile payment usage is notably higher among younger individuals and working professionals in Bengaluru due to their familiarity with digital technologies. Convenience emerges as the most influential factor encouraging users to prefer digital transactions over cash. Social exposure and peer usage also contribute to the spread of mobile payment adoption. At the same time, hesitation among older users points to the need for improved awareness and trust-building measures. The results strongly align with the principles of the Technology Acceptance Model, confirming that perceived usefulness and ease of use significantly shape consumer attitudes toward mobile payment systems.

13. SUGGESTIONS

To enhance the effective use of mobile payment systems, digital literacy initiatives should be organized, particularly for elderly users, to improve their confidence in using these applications. Service providers must upgrade security mechanisms and continuously educate users about safe transaction practices. Strengthening server capacity and technical infrastructure can reduce transaction failures. Efficient customer support services are necessary to address user concerns promptly. Continuous efforts by government bodies and financial institutions to promote digital payment awareness will ensure broader and more inclusive adoption

14. CONCLUSION

Mobile payment systems have become an essential part of daily financial transactions for consumers in Bengaluru City. The study shows that convenience, speed, and ease of use are the main reasons for the high adoption of these systems. Trust and security perception play a major role in influencing users to rely on mobile payment applications. Despite the benefits, issues like fraud fears, network problems, and lack of digital literacy among older users remain challenges. Increasing awareness, improving security measures, and strengthening digital education can further enhance the adoption of mobile payment systems.

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