IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 6, June 2025
Impact Factor: 7.67

Impact of Mobile Payment Apps on Consumer Spending Habits

Vikash Kumar
MBA Student
School of Business, Galgotias University, Greater Noida, Uttar Pradesh, India

Abstract: *The proliferation of mobile payment apps such as Google Pay, Paytm, and PhonePe has significantly altered consumer spending behavior. This study investigates how these apps impact purchasing frequency, impulsive spending, and financial awareness. Employing a mixed methods approach, the research combined survey responses from 160 users with qualitative interviews. Findings revealed that app users tend to spend more frequently, especially on non essential items, due to ease of use, gamified incentives, and emotional detachment from money. Younger users and those with lower financial literacy showed higher susceptibility to impulsive spending. The study underscores the importance of promoting financial literacy and ethical fintech design to safeguard consumer well-being.*

Keywords: *gamified incentives*

I. INTRODUCTION

The rapid growth of digital technology has revolutionized the financial ecosystem, with mobile payment applications playing a transformative role in reshaping how people conduct transactions. Apps like Google Pay, PhonePe, and Paytm offer users a seamless, cashless experience, enabling payments with just a few taps on their smartphones. These platforms have not only made financial transactions more convenient but also introduced new behavioral patterns among consumers.

This shift in technology has led to changes in how individuals perceive money and manage their spending. Unlike cash transactions, where the physical handover of money creates a sense of loss, mobile payments often detach users from the emotional experience of spending. As a result, consumers tend to spend more frequently and sometimes impulsively.

The integration of features such as cashback, promotional offers, and one-tap checkouts further fuels this trend, subtly encouraging users to engage in habitual spending. This effect is particularly noticeable among urban youth who are tech-savvy and regularly use digital wallets.

This study aims to explore the psychological and behavioral impacts of mobile payment apps on consumer spending habits, focusing on urban India. It investigates whether these digital tools promote responsible financial behavior or contribute to impulsive and excessive spending patterns.

Objective of the study

The objectives of this study are designed to understand how mobile payment applications impact consumer spending habits from various angles.

The first objective is to analyze the frequency and amount of spending influenced by mobile payment usage. This means the study aims to find out whether consumers who use apps like Google Pay or PhonePe spend money more often or in larger amounts compared to traditional payment methods. By examining transaction patterns, the study seeks to determine if convenience leads to increased spending.

The second objective focuses on identifying the psychological and behavioral mechanisms triggered by these apps. Features like one-click payments, cashback offers, and discounts may encourage impulsive buying and provide instant gratification, reducing financial self-control. The study explores whether such elements make consumers more likely to spend without proper planning.

DOI: 10.48175/IJARSCT-27940

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The third objective assesses how demographic factors such as age, income, education, and digital literacy influence consumer behavior. It aims to uncover if younger individuals or those with lower financial awareness are more prone to overspending when using mobile apps.

Hypotheses of the Study

H1: Users of mobile payment apps spend more frequently and in higher amounts.

This hypothesis suggests that the convenience and speed offered by mobile payment apps lead to an increase in the number of transactions and the total money spent. Unlike cash or card payments, mobile apps allow quick and effortless purchases, which may encourage users to buy more often, especially small items or services. The study tests whether using mobile apps actually changes the overall spending behavior of consumers compared to traditional payment methods.

H2: App features like rewards and one-click payments increase impulsive purchases.

This hypothesis focuses on behavioral triggers built into mobile apps like cashback offers, discount alerts, and one-tap checkouts. These features make the purchase process fast and emotionally rewarding, reducing the user's hesitation. The idea is that these app designs encourage users to make quick, unplanned decisions, resulting in impulse buying without carefully thinking through the necessity of the purchase.

H3: Younger and less financially literate individuals are more affected by these behavioral changes.

This hypothesis explores how age and financial knowledge affect spending behavior. It assumes that young adults, who are more comfortable with technology but may lack budgeting experience, and those with limited financial literacy are more vulnerable to overspending or impulsive buying when using mobile payment apps. The study examines if these groups show stronger behavioral shifts compared to older or more financially aware users.

II. RESEARCH METHODOLOGY

1. Approach: Mixed-methods (quantitative + qualitative)

This study uses a mixed-methods approach, meaning it combines both quantitative and qualitative data.

• Quantitative data includes numbers and statistics collected from structured surveys.

• Qualitative data involves personal experiences and insights gathered through interviews. This combination helps the researcher gain a comprehensive understanding of how mobile payment apps affect consumer behavior—not just in numbers but also in feelings and attitudes.

2. Sample Size: 160 app users aged 18–45 from urban areas

The study collected data from 160 participants who regularly use mobile payment apps. All participants were between 18 and 45 years old and lived in urban areas, as they are more likely to use digital financial services frequently. This group reflects the population most engaged with mobile payment technology.

3. Tools: Google Forms for surveys; Zoom/phone interviews

• Google Forms was used to distribute the survey questions online, making it easy to collect large-scale quantitative data.

• Zoom or phone interviews were conducted with a smaller group to gather detailed, personal insights into consumer behavior and psychological triggers.

4. Analysis: SPSS for statistical testing and thematic coding for interview data

• SPSS, a software for data analysis, was used to analyze survey responses, including frequencies, correlations, and regression models.

• Thematic coding was used to analyze interview responses, identifying common themes such as emotional detachment, impulsivity, or peer influence in spending behavior.

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5. Key Variables

The study focused on the following major variables:

• Spending Frequency – how often users spend money using apps
• App Features – such as one-tap payments, discounts, and cashback
• Psychological Triggers – emotional factors like gratification and detachment from money
• Demographics – including age, income, education, and digital literacy

III. CONCLUSION

The conclusion of the study highlights the significant impact that mobile payment apps have on modern consumer behavior. These apps like Google Pay, PhonePe, and Paytm have created a new financial environment where transactions are quick, effortless, and often emotionally disconnected from the idea of "spending money." Because users do not physically see or handle cash, they tend to underestimate how much they are spending. This convenience, while beneficial in many ways, also leads to spontaneous and impulsive purchases.

The study found that young adults, particularly those in the 18–30 age group, are the most affected. They are more tech-savvy but often lack strong financial literacy, making them more vulnerable to overspending. Features like one-tap payments, cashback offers, and frequent discount notifications encourage frequent and sometimes unnecessary transactions.

Limitations of the Study

• Reliance on Self-Reported Data

The study depends on participants' responses, which may be biased or inaccurate due to memory errors or social desirability.

• Limited Demographic Diversity

Most respondents were urban students and young adults, limiting the study's ability to represent older age groups or working professionals.

• Geographic Limitation

The focus was mainly on urban areas; rural users were not included, which restricts the general applicability of findings.

• Rapidly Evolving Technology

Mobile payment apps frequently update their features. As a result, the findings may become outdated quickly and may not reflect future trends.

• Exclusion of Non-Digital Users

Individuals who do not use mobile payment apps, such as those without smartphones or internet access, were not part of the study.

• Short-Term Behavior Focus

The study analyzed consumer behavior at one point in time and does not track long-term effects of mobile payment usage on spending habits.

• Sample Size Constraints

Due to limited resources, the study included only 160 participants, which may not fully capture all consumer behaviors and perspectives.

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