

The Role Of Mobile Apps In Boosting Online Shopping – A View

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ABSTRACT

Mobile applications have revolutionized the way consumers interact with online retailers. With the growing penetration of smartphones and enhanced functionalities of shopping apps, online purchasing has become more accessible, efficient, and user-friendly. This study investigates the role of mobile apps in influencing online shopping behavior among consumers. Using data collected from 159 respondents through structured questionnaires, the research explores user preferences, convenience factors, satisfaction levels, and key app features that contribute to the frequency of online shopping. The findings reveal that mobile apps significantly improve the shopping experience by offering speed, personalization, and convenience, thereby becoming an essential tool in modern e-commerce.

Keywords: Mobile Applications, Online Shopping, E-commerce, Consumer Behavior, Shopping Apps, Smartphone Usage

INTRODUCTION

In the era of digital transformation, technology has significantly reshaped the way people live, communicate, and shop. One of the most notable shifts in consumer behavior in recent years is the widespread transition from traditional in-store shopping to online shopping. Among the various technological tools driving this change, mobile applications have emerged as key facilitators in enhancing the online shopping experience.

With the rapid growth in smartphone usage, availability of high-speed internet, and affordable data plans, mobile shopping has become more accessible to a broad audience. Consumers now enjoy the convenience of browsing and purchasing products anytime and anywhere via mobile apps. Reports suggest that over 70% of e-commerce transactions in

countries like India are now conducted through mobile devices, highlighting the growing dominance of app-based shopping.

Mobile apps offer several features designed to attract and retain consumers—such as real-time notifications, personalized recommendations, secure payment systems, and user-friendly interfaces. E-commerce giants like Amazon, Flipkart, and Myntra have made significant investments in mobile app development to boost user engagement and drive conversions. Beyond purchasing, apps are used to track orders, read reviews, avail offers, and seek customer support—making them a one-stop solution for shoppers.

This study aims to understand the influence of mobile apps on online shopping behavior, assess user satisfaction, and identify key app features that enhance consumer engagement. The insights derived from 159 respondents can help app developers, marketers, and e-commerce platforms improve mobile app design and functionality for better customer retention.

OBJECTIVES OF THE STUDY

- ✓ To understand the frequency of online shopping through mobile apps.
- ✓ To identify key factors that influences the use of mobile apps for shopping.
- ✓ To assess customer satisfaction levels regarding mobile shopping apps.
- ✓ To examine the challenges faced by users while shopping through mobile apps.
- ✓ To provide suggestions for enhancing mobile shopping experiences.

REVIEW OF LITERATURE

Francesca De Canio, Maria Fuentes-Blasco, and Elisa Martinelli (2021) examined how intrinsic motivations—such as shopping gamification, focused attention, enjoyment, and socialness—influence consumers' intention to buy using mobile apps, with shopping engagement as a mediating factor. Conducted in China with 893 respondents, the study found that these motivations indirectly affect purchase intentions through increased engagement. Moreover, the online shopping experience was shown to positively moderate the link between engagement and intention to buy. The study highlights the importance of creating engaging and enjoyable mobile app experiences to boost consumer purchase behavior.

Laith T. Khrais (2021) investigated factors influencing user acceptance and usage of mobile apps in online services using the UTAUT and ETAM models. The study identified quality, satisfaction, security, performance expectancy, effort expectancy, facilitating conditions, and social influence as key determinants. Based on survey data and statistical analysis, all constructs showed significant influence, confirming the hypotheses. The study emphasizes the need for both technical and behavioral design elements in mobile apps to enhance user engagement and adoption in digital commerce.

Xiong Li, Xiaodong Zhao, Wangtu (Ato) Xu, and Wei Pu (2020) developed a novel approach to evaluate the ease of use of mobile e-commerce apps by introducing the **Distance of Information-State Transition (DIT)** theory. Viewing mobile shopping as an information operation process, the study proposed a DIT-based method to assess app "convenience" from the user's behavioral perspective. Using three major Chinese e-commerce platforms—Tianmao, Jingdong, and Suning—the study quantitatively measured ease-of-use indicators under common online shopping scenarios. The findings offer valuable insights for both online consumers and app designers, emphasizing the need for user-friendly interfaces to enhance shopping efficiency and system design.

SCOPE OF THE STUDY

- ❖ The study is limited to respondents who actively use mobile apps for online shopping.
- ❖ It focuses on consumer preferences, behavior, and experiences related to mobile-based shopping.
- ❖ The geographical coverage includes selected urban and semi-urban areas.
- ❖ The study was conducted over a one-month time period.
- ❖ The results aim to assist developers, marketers, and e-retailers in improving customer engagement through app enhancements.

RESEARCH METHODOLOGY

- ❖ **Type of Research:** Descriptive research
- ❖ **Sample Size:** 159 respondents
- ❖ **Sampling Method:** Convenience sampling
- ❖ **Data Collection Tool:** Structured questionnaire (via Google Forms and physical surveys)
- ❖ **Data Collection Method:** Primary data collection
- ❖ **Statistical Tools Used:** Percentage analysis and descriptive statistics

LIMITATIONS OF THE STUDY

1. The study is based on a limited sample size of 159 respondents.
2. It covers only selected urban and semi-urban regions.
3. Non-users of mobile shopping apps are excluded from the analysis.
4. Data collected is self-reported and may be subject to bias.
5. Rapid technological changes in mobile apps may affect the study's long-term relevance.

FREQUENCY OF ONLINE SHOPPING VIA MOBILE APPS

Descriptive Statistics							
	N	Mean	Std. Deviation	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
Daily	159	2.91	1.451	.130	.192	-1.344	.383
Once a week	159	2.96	1.455	.015	.192	-1.358	.383
Twice a month	159	3.10	1.393	-.125	.192	-1.214	.383
Occasionally	159	3.02	1.385	-.020	.192	-1.207	.383
Never	159	3.01	1.441	-.022	.192	-1.312	.383

Source: Primary data

The descriptive statistics for the frequency of online shopping via mobile apps reveal that among the 159 respondents, the mean values range from 2.91 (Daily) to 3.10 (Twice a month), indicating that most users tend to shop occasionally or twice a month. The standard deviations, which range between 1.385 and 1.455, show moderate variability in shopping frequency across categories. The skewness values are close to zero, suggesting a fairly symmetric distribution of responses, while the negative kurtosis values (ranging from -1.207 to -1.358) indicate a relatively flat distribution compared to a normal curve. Overall, the data suggests that online shopping through mobile apps is moderately frequent among respondents, with a tendency toward regular but not daily usage.

MOST PREFERRED APP FEATURES

Descriptive Statistics							
	N	Mean	Std. Deviation	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
Easy Navigation	159	3.06	1.372	-.025	.192	-1.221	.383
Fast Loading Speed	159	2.74	1.442	.282	.192	-1.258	.383
Secure Payment Gateway	159	2.91	1.402	.103	.192	-1.261	.383
Personalised Recommendations	159	2.89	1.392	.105	.192	-1.241	.383
Push Notifications/Offer	159	3.14	1.444	-.142	.192	-1.309	.383

Source: Primary data

The descriptive statistics for the most preferred app features among 159 respondents indicate that "Push Notifications/Offer" (Mean = 3.14) and "Easy Navigation" (Mean = 3.06) are the most favored features, followed closely by "Secure Payment Gateway" (Mean = 2.91) and "Personalised Recommendations" (Mean = 2.89), while "Fast Loading Speed" (Mean = 2.74) is rated relatively lower. The standard deviations, ranging from 1.372 to 1.444, suggest a moderate spread in user preferences. Skewness values are generally close to zero, indicating a nearly symmetric distribution of responses. The negative kurtosis values (between -1.221 and -1.309) imply a flatter distribution than normal, showing that respondents' opinions are somewhat evenly spread across the scale. Overall, users show a slight preference for features that enhance convenience and engagement, such as navigation ease and timely offers.

LEVEL OF SATISFACTION WITH MOBILE SHOPPING APPS

Satisfaction Level	No. of Respondents	Percentage
Highly Satisfied	41	25.8%
Satisfied	71	44.7%
Neutral	32	20.1%
Dissatisfied	11	6.9%
Highly Dissatisfied	4	2.5%

Satisfaction Level	No. of Respondents	Percentage
Total	159	100

Source: Primary data

Around 70.5% of users are either highly satisfied or satisfied with their experience, indicating positive engagement with mobile shopping apps.

SUGGESTIONS

1. **Improve App Speed:** Ensure smooth performance even on devices with low specifications.
2. **Enhance Security:** Incorporate multi-layered security features to build user trust.
3. **Simplify User Interface:** Create an intuitive and easy-to-navigate design, especially for new users.
4. **Integrate Customer Support:** Add live chat or 24/7 support for resolving user issues in real-time.
5. **Offer Personalization & Deals:** Provide personalized product suggestions and timely notifications about discounts.
6. **Add Multi-Language Options:** Support regional languages to attract a wider user base.

CONCLUSION

The study concludes that mobile applications play a pivotal role in enhancing the online shopping experience. Their user-friendly features, speed, and convenience have made them the preferred mode of shopping among modern consumers. The findings emphasize the importance of continuous improvements in app design—particularly in the areas of navigation, security, and personalization—to maintain user satisfaction and increase usage frequency. E-commerce platforms that prioritize mobile app development and user-centric innovations are likely to gain a competitive advantage in the evolving digital marketplace.

REFERENCE

- Khrais, L. T. (2021). Verifying persuasive factors boosting online services business within mobile applications. *Periodicals of Engineering and Natural Sciences (PEN)*, 9(2), 1046-1054.
- De Canio, F., Fuentes-Blasco, M., & Martinelli, E. (2021). Engaging shoppers through mobile apps: the role of gamification. *International Journal of Retail & Distribution Management*, 49(7), 919-940.
- Li, X., Zhao, X., & Pu, W. (2020). Measuring ease of use of mobile applications in e-commerce retailing from the perspective of consumer online shopping behaviour patterns. *Journal of Retailing and Consumer Services*, 55, 102093.