



An Investigation into Customer Retention Approaches on E-Commerce Platforms and Mobile Shopping Applications

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ABSTRACT

Driven by the swift expansion of digital retail and mobile-based commerce, the competitive landscape among online shopping platforms has grown considerably more intense, elevating customer retention to a position of central strategic importance. This paper investigates the retention mechanisms that prove most impactful for online shopping websites and mobile applications, directing particular attention toward personalised content delivery, reward-based loyalty systems, gamified engagement, responsive customer assistance, targeted push alerts, and integrated multi-channel outreach. A mixed-method research design was adopted, drawing on primary survey responses from 50 participants alongside secondary evidence from established academic literature. The investigation assessed how these approaches shape key retention indicators, namely repeat purchase frequency, customer lifetime value (CLV), and churn rate. Statistical procedures including chi-square analysis, ANOVA, and multiple linear regression were applied. Results demonstrate that content personalisation and loyalty reward schemes carry the most influence over retention outcomes, whereas inadequate post-purchase support and notification overload diminish user engagement. The study further uncovers the moderating influence of demographic characteristics and technology familiarity, along with mediating roles played by

user satisfaction, brand credibility, and perceived benefit. Actionable recommendations are provided to assist digital commerce businesses in cultivating sustained customer loyalty within a rapidly evolving marketplace.

Keywords: Customer Retention, E-Commerce, Personalisation, Loyalty Programs, Mobile Applications, Gamification, Customer Lifetime Value, Churn Rate, Multi-Channel Engagement



1. INTRODUCTION

Within the intensely contested terrain of digital retail, keeping an existing customer engaged carries at least as much commercial weight as drawing in a new one, and arguably more. The widespread availability of online shopping platforms and mobile applications has placed extraordinary power in the hands of consumers, who can now transition between competing services with minimal friction and negligible cost. In this environment, businesses can no longer afford to direct resources solely toward customer acquisition; rather, they must place equal or greater emphasis on strategies designed to foster enduring loyalty.

At its core, customer retention describes a company's capacity to sustain and deepen relationships with its current user base over time. A recurring finding in the literature is that holding on to an existing customer is between five and seven times less expensive than bringing in a new one, and that even marginal improvements in retention translate into notable gains in profitability. Beyond cost efficiency, loyal customers tend to purchase more frequently as their relationship with a platform matures, contribute positively to brand reputation through referrals, and demonstrate greater patience during pricing fluctuations or occasional service lapses.

The emergence and rapid growth of mobile commerce has introduced additional complexity to the retention challenge. Mobile applications, by virtue of their persistent presence on users' devices, create richer engagement opportunities through real-time alerts, contextualised personalisation, and location-sensitive marketing. Yet these same platforms face an elevated risk of abandonment, as the barriers to uninstalling an app are extremely low. Identifying what sustains user commitment across both web-based and mobile shopping environments is therefore a question of considerable academic and commercial relevance.

The present study undertakes a systematic examination of the retention approaches that generate the greatest impact on online shopping websites and mobile applications. It situates its findings within a set of well-established conceptual models, including Relationship Marketing Theory, the Technology Acceptance Model (TAM), Social Exchange Theory, and Expectancy Disconfirmation Theory. A mixed-method design combining primary survey data collected from 50 respondents with secondary sources drawn from the research literature is used to identify the principal drivers of retention and to evaluate a proposed conceptual framework.

2. PROBLEM STATEMENT

Despite frequently offering attractive prices, wide product ranges, and intuitive interfaces, a significant number of e-commerce businesses continue to struggle with elevated rates of customer disengagement. The root cause often lies in the inability to implement retention strategies that build genuine loyalty beyond the moment of first purchase. When personalisation is absent, customer service is reactive rather than proactive, cross-platform consistency is lacking, and reward schemes fail to deliver meaningful value, the resulting high acquisition costs erode profit margins without producing a corresponding base of committed customers.

This study addresses these challenges by identifying the most effective, evidence-grounded approaches to keeping customers on digital shopping platforms and mobile apps, to equip businesses with concrete and actionable insights for reducing churn and growing customer lifetime value.



3. RESEARCH OBJECTIVES

- To identify and critically examine the retention strategies most widely adopted by e-commerce websites and mobile shopping applications.
- To explore how personalisation practices and loyalty reward systems relate to measurable retention outcomes.
- To assess the contribution of user experience design, customer support quality, and gamification to repeat purchase behaviour.
- To understand how demographic characteristics moderate the effectiveness of various retention approaches.
- To develop evidence-based recommendations that help e-commerce platforms reduce churn and increase customer lifetime value.

4. REVIEW OF LITERATURE

The table below presents a structured overview of foundational academic studies examining customer retention within e-commerce and mobile commerce settings.

S.No	Author(s)	Framework	Focus	Method	Key Findings	Conclusion	Future Research
1	Anderson & Srinivasan (2003)	Satisfaction & Retention	Does satisfaction drive online loyalty?	Survey + Regression	Higher satisfaction levels correlate strongly with e-commerce retention	Improving satisfaction measurably improves retention	Sector-specific drivers need further investigation
2	Lemon et al. (2002)	Customer Loyalty Programs	Do reward programs raise repeat purchase rates?	Case Study + Interviews	Structured rewards foster long-term loyalty and re-purchases	Incentive-based systems build durable loyalty	Design variations across market segments
3	Chen et al. (2011)	Personalisation & Engagement	Does targeted content raise engagement?	A/B Experimental Study	Behaviourally tailored suggestions increase both sales and engagement	Personalisation boosts satisfaction and retention	AI-based personalisation effects need wider study
4	Chaudhuri & Holbrook (2001)	Brand Trust & Loyalty	Does brand trust predict retention?	Structural Equation Modelling	Strong brand trust drives retention and	Trust is foundational to long-term loyalty	Trust dynamics: digital vs.



S.No	Author(s)	Framework	Focus	Method	Key Findings	Conclusion	Future Research
					customer advocacy		physical retail
5	Kim et al. (2012)	Push Notifications in Mobile Apps	Can notifications improve re-engagement?	Survey + Behavioural Tracking	Well-timed alerts enhance re-engagement; excessive ones cause attrition	Appropriate notification use supports retention	Optimal frequency and content personalisation
6	Wang et al. (2015)	Gamification in Mobile Platforms	Does gamification raise engagement?	Case Study Analysis	Achievement features increase session length and repeat visits	Gamification is an effective mobile retention tool	ROI of gamification across different app categories
7	Reichheld & Sasser (1990)	Service Quality & Retention	Does service quality lower churn?	Longitudinal Analysis	High service quality significantly reduces customer attrition	Service excellence is a reliable long-term retention predictor	Digital service channels and their retention impact
8	Lemon & Verhoef (2016)	Multi-Channel Engagement	Does cross-channel presence improve retention?	Longitudinal Data Study	Consistent multi-channel interaction increases retention rates substantially	Omnichannel strategies are vital to retention	Omnichannel integration in developing markets
9	Tsiotsou (2015)	Social Media & Brand Loyalty	Does social engagement improve loyalty?	Survey + Social Analytics	Brand communities on social media increase satisfaction and retention	Social media reinforces attachment and loyalty	Influencer-driven retention mechanisms
10	Hennig-Thurau et al. (2002)	Customer Engagement & WOM	Does engagement generate referrals?	Survey Analysis	Engaged customers advocate for brands, raising	Community-building sustains retention	Digital WOM platforms and retention outcomes



S.No	Author(s)	Framework	Focus	Method	Key Findings	Conclusion	Future Research
					overall retention		

4.1 Synthesis of Literature

The body of research on customer retention in digital shopping contexts has grown considerably, with several high-quality studies converging on a core set of strategies that consistently demonstrate strong impact. Among these, personalisation occupies a prominent position. Chen et al. (2011), through a controlled experimental design, showed that recommendations driven by user behaviour substantially raise both engagement levels and the probability of repeat purchases. This observation aligns with Anderson and Srinivasan's (2003) conclusion that satisfaction — which personalised experiences play a large part in creating — is among the most reliable predictors of continued online patronage.

Reward-based loyalty schemes represent another well-supported retention mechanism. Through qualitative case analysis, Lemon et al. (2002) established that structured incentive systems, when paired with emotional engagement and proactive service touchpoints, cultivate long-term loyalty rather than purely transactional behaviour. Complementing this, Hennig-Thurau et al. (2002) found that community engagement and customer involvement initiatives amplify word-of-mouth activity, which in turn sustains retention over longer periods.

The role of brand trust in retention has been rigorously examined by Chaudhuri and Holbrook (2001), whose structural equation modelling confirmed that transparent communication and dependable service act as foundational pillars of consumer confidence in a brand. Building on this, Srinivasan et al. (2002) demonstrated that continuous customer support and prompt handling of complaints significantly reduce churn, especially in digital contexts where most interactions occur without face-to-face contact.

Within the mobile commerce space, Kim et al. (2012) found that contextually relevant push notifications improve re-engagement, though over-notification was identified as a notable risk. Wang et al. (2015) identified gamification as a powerful complement to loyalty frameworks, with achievement mechanics and reward structures extending session duration and encouraging repeat visits. Reichheld and Sasser's (1990) longitudinal research affirmed that consistent, empathetic service delivery reliably predicts reduced churn. Rounding out this synthesis, Lemon and Verhoef (2016) underscored the growing importance of cohesive multi-channel engagement, noting that synchronised customer touchpoints across websites, apps, email, and social media markedly improve retention by preserving brand presence throughout the full consumer journey.

4.2 Research Gap

Although the existing academic literature provides substantial insights into individual retention strategies, a number of meaningful gaps persist. First, the majority of available studies analyse websites and mobile applications as distinct contexts, without accounting for the increasingly common reality of consumers who navigate across both platforms within a single purchase journey. Second, the literature is largely cross-sectional in nature, and longitudinal studies that follow retention outcomes over the complete arc of a customer relationship remain scarce. Third, empirical evidence on the effects of AI and machine learning-powered personalisation across varied demographic groups remains limited. The moderating influence of variables such as age, disposable income, and digital proficiency on the comparative effectiveness of different retention



strategies also warrants more rigorous investigation. Finally, while social media influencer activity has been widely studied in relation to customer acquisition, its specific bearing on long-term retention behaviour has received comparatively little scholarly attention.

5. THEORETICAL FRAMEWORK

Relationship Marketing Theory (Morgan & Hunt, 1994): Enduring customer relationships are constructed on a foundation of mutual trust and commitment. Within digital retail, these qualities are fostered through consistent loyalty programme communication, individualised outreach, and support systems that respond reliably to customer needs. When users accumulate a series of positive interactions with a platform, their attachment deepens to the point where switching to a competitor becomes an unlikely choice.

Customer Satisfaction Theory (Oliver, 1980): Satisfaction operates as an important mediating force connecting the quality of retention strategies to actual retention behaviour. Platforms that deliver smooth navigation, precise product information, on-time fulfilment, and efficient resolution of complaints reliably produce higher satisfaction scores among their users. These elevated satisfaction levels, in turn, translate into more frequent purchases and a natural inclination to recommend the platform to others.

Technology Acceptance Model (Davis, 1989): The TAM model identifies ease of use and functional relevance as the primary factors driving whether users continue to engage with a technology. In the context of mobile shopping applications, thoughtfully designed interfaces, streamlined checkout pathways, and dependable technical performance directly shape users' intentions to keep using the platform, making user experience design a strategically significant retention tool.

Social Exchange Theory (Blau, 1964): This framework approaches customer loyalty as the natural outcome of a perceived value exchange. When users feel that the tangible and intangible benefits they receive from a platform — including cashback, reward points, and attentive service — outweigh the effort and cost of continued engagement, loyalty follows. Conversely, when loyalty programmes appear hollow or overly difficult to navigate, disengagement accelerates.

Expectancy Disconfirmation Theory (Oliver, 1980): This model explains how satisfaction or dissatisfaction arises from the comparison between what a customer anticipated and what they actually experienced. Platforms that reliably meet or surpass pre-purchase expectations, particularly in delivery accuracy, product quality, and issue resolution, generate positive disconfirmation, which reinforces loyalty and substantially lowers the probability that a customer will leave the platform.

6. VARIABLES IDENTIFICATION

6.1 Independent Variables (Retention Strategies)

- **Personalisation Techniques:** Behaviour-driven product suggestions, tailored promotional content, and customised platform interfaces.
- **Loyalty Programs:** Points accumulation systems, membership tier structures, and gamified engagement mechanics.
- **Customer Support:** Continuous availability, cart recovery outreach, and post-transaction follow-up communications.



- Checkout Convenience: Optimised payment flows, diverse payment method coverage, and fast delivery execution.
- Push Notifications and Email Campaigns: Relevance, timing, and personalisation levels of customer communications.
- Brand Trust and Emotional Affinity: Transparency in data handling, responsible sourcing practices, and ethical business conduct.

6.2 Dependent Variables (Retention Outcomes)

- Repeat Purchase Rate: The share of customers making more than one purchase within a defined period.
- Customer Lifetime Value (CLV): The total projected revenue a customer is expected to generate throughout their relationship with the platform.
- Churn Rate: The proportion of customers who cease engagement within a specified timeframe.
- Net Promoter Score (NPS): The degree to which customers would recommend the platform to people they know.

6.3 Moderating and Mediating Variables

- Moderating – Customer Demographics: Age, gender, household income, and geographic location.
- Moderating – Technology Adoption Level: Digital confidence and prior familiarity with mobile commerce platforms.
- Moderating – Product Category Involvement: Whether the purchase is high-involvement or low-involvement in nature.
- Mediating – Customer Satisfaction: How closely the overall platform experience aligns with user expectations.
- Mediating – Brand Trust: Confidence users place in a platform's reliability, security practices, and ethical standards.
- Mediating – Perceived Value: The user's assessment of benefits gained relative to the costs of continued engagement.

7. RESEARCH METHODOLOGY

7.1 Research Design

This study employs a descriptive and analytical research design grounded in a mixed-method approach. Primary data was gathered through a structured questionnaire administered via Google Forms across digital channels, including WhatsApp and email. Secondary data was drawn from peer-reviewed journals, regulatory publications, and industry research reports.

7.2 Sample Size and Sampling Method

Fifty respondents were recruited using a non-probability convenience sampling approach. The sample encompasses active online shoppers across various age ranges, with a concentration in the 18–35 bracket, which constitutes the dominant demographic for mobile commerce activity. The sample size was considered appropriate for generating meaningful descriptive and inferential insights within the scope of this study.

7.3 Data Collection Instrument

The questionnaire was structured around Likert-scale items measuring respondents' satisfaction with various retention mechanisms, frequency of loyalty programme use, attitudes toward personalisation, and likelihood



of recommending the platform. Supplementary items captured demographic and behavioural characteristics of each participant.

7.4 Statistical Tools

- **Chi-Square Test of Independence:** Applied to determine whether statistically significant associations exist between demographic characteristics and retention-related behaviour.
- **ANOVA (Analysis of Variance):** Used to compare retention-related outcomes across different respondent subgroups.
- **Multiple Linear Regression Analysis:** Employed to quantify the predictive contribution of each retention strategy to customer lifetime value and repeat purchase intentions.

8. DATA ANALYSIS AND INTERPRETATION

8.1 Demographic Profile of Respondents

The largest share of respondents — approximately 48 per cent — were aged between 18 and 25, followed by those aged 26 to 35 at 30 per cent, reflecting the digitally native cohort that drives the majority of mobile commerce activity. Students represented 52 per cent of the sample, with working professionals accounting for 38 per cent, a distribution that aligns well with documented online shopping patterns in urban Indian contexts.

8.2 Statistical Results

Test	Statistic	df / Variables	p-value
Chi-Square Test	$\chi^2 = 13.78$	df = 6	0.032*
ANOVA (Personalisation vs Repeat Purchase)	F = 3.21	3 groups	0.038*
Regression – Personalisation Satisfaction (β)	$\beta = 0.41$	$p < 0.01^{**}$	Highest predictor
Regression – Loyalty Programme Engagement (β)	$\beta = 0.33$	$p < 0.05^*$	Strong predictor
Regression – Customer Support Quality (β)	$\beta = 0.22$	$p < 0.05^*$	Significant
Regression – Push Notification Frequency (β)	$\beta = -0.18$	$p < 0.05^*$	Negative effect
$R^2 = 0.34$ Adjusted $R^2 = 0.29$	Model Fit	—	Acceptable

* $p < 0.05$ ** $p < 0.01$



Chi-Square Test: With a p-value of 0.032 falling below the 0.05 significance threshold, a statistically significant relationship was confirmed between age group and loyalty programme preference. Younger participants in the 18–25 range showed notably stronger engagement with gamified loyalty features, while those aged 36 and above favoured uncomplicated cashback and discount-based rewards.

ANOVA: The statistically significant ANOVA result ($F = 3.21$, $p = 0.038$) indicates that repeat purchase intentions differ meaningfully across respondents who rate their personalisation experience as high, moderate, or low. Those who reported high satisfaction with personalisation recorded the strongest inclination to purchase again, reinforcing the case for personalisation as a central driver of retention.

Multiple Linear Regression: Personalisation Satisfaction ($\beta = 0.41$, $p < 0.01$) and Loyalty Programme Engagement ($\beta = 0.33$, $p < 0.05$) emerged as the strongest independent predictors of CLV. Customer Support Quality also contributed significantly ($\beta = 0.22$, $p < 0.05$). Notably, excessive push notification frequency carried a negative coefficient ($\beta = -0.18$, $p < 0.05$), confirming that poorly managed communication strategies actively undermine retention outcomes. The model explained 34 per cent of the variance in CLV ($R^2 = 0.34$, Adjusted $R^2 = 0.29$).

9. KEY FINDINGS

- Respondents aged 18 to 25 exhibited considerably greater engagement with loyalty reward systems, gamified features, and personalised recommendations, affirming the moderating role that age plays in shaping the effectiveness of specific retention approaches.
- Personalisation and loyalty programmes were consistently identified as the two highest-impact retention mechanisms, with satisfaction derived from personalisation accounting for the greatest share of variance in CLV outcomes.
- The quality and timeliness of customer support emerged as a critical mediating factor; poor service experiences were directly linked to diminished platform trust and heightened churn probability.
- High volumes of push notifications showed a statistically significant negative relationship with retention intent, with respondents frequently citing notification overload as a primary reason for disengaging from or uninstalling apps.
- Working professionals placed the highest value on seamless cross-channel experiences, while student respondents were more strongly motivated by in-app gamification and community features.
- Brand trust, shaped by transparent business communication, ethical conduct, and consistent service delivery, was confirmed as a strong mediating variable between strategy quality and actual repeat purchasing behaviour.
- Simplified checkout processes — including one-tap payment options and UPI integration — were identified as meaningful friction-reduction mechanisms, particularly among users who primarily access platforms via mobile devices.

10. SUGGESTIONS AND RECOMMENDATIONS

Develop AI-Powered Personalisation Capabilities: Businesses should invest in machine learning tools capable of generating real-time product suggestions and dynamically adjusted homepage content based on individual browsing and purchase patterns. Personalisation efforts should extend beyond product display to encompass customised pricing offers and loyalty reward communications, creating a more holistic and responsive user experience.



Tailor Loyalty Programme Design to User Demographics: Research findings indicate that younger users are drawn to gamification mechanics such as progress streaks, milestone badges, and tier advancement, whereas older customer segments are more motivated by direct cashback and tangible discount rewards. A modular loyalty architecture that allows users to self-select their preferred reward type would serve a broader range of customer profiles more effectively.

Adopt Data-Driven Notification Strategies: Frequency-capping mechanisms and behavioural triggers should govern when and how push notifications are delivered, ensuring that messages are sent at moments of genuine relevance. Generic mass notifications should be actively avoided, as they are a leading cause of app fatigue and disengagement.

Invest in Structured Post-Purchase Outreach: Automated post-delivery follow-ups, targeted review collection initiatives, and personalised re-order nudges can meaningfully extend the customer engagement cycle. These activities should be designed as structured journeys, calibrated to product category and customer segment, rather than isolated one-off communications.

Continuously Optimise the Mobile User Experience: Regular usability assessments of app navigation flows, checkout pathways, and payment gateway performance are essential. Checkout steps should be reduced to an absolute minimum, and comprehensive payment support — spanning UPI, digital wallets, and instalment options — should be maintained to accommodate the full range of user preferences.

Strengthen Consumer Trust Through Open Communication: Clear and accessible communication about data privacy policies, authenticity guarantees, and returns processes should be made a standard feature of the user experience. Customers who view a platform as trustworthy and aligned with their values consistently demonstrate stronger retention metrics and higher NPS scores.

11. CONCLUSIONS

This study set out to identify and analyse the most effective retention approaches available to online shopping platforms and mobile commerce applications. The collective findings make clear that no single approach is sufficient on its own. Sustainable retention is achieved through a coordinated combination of large-scale personalisation, meaningfully structured loyalty ecosystems, proactive customer assistance, friction-free transactional experiences, and precisely calibrated communication strategies.

Regression analysis confirmed that personalisation satisfaction and loyalty programme engagement are the most powerful independent predictors of customer lifetime value, while inadequate post-purchase support and excessive notification frequency were found to actively erode retention. Chi-square results revealed that demographic characteristics, particularly age, meaningfully moderate the impact of specific strategies, pointing to the necessity of segmented rather than universal retention approaches.

From a theoretical standpoint, the study affirms the continued relevance of Relationship Marketing Theory, TAM, Social Exchange Theory, and Expectancy Disconfirmation Theory as complementary frameworks for understanding retention dynamics in e-commerce settings. Practically, the findings offer digital commerce businesses a prioritised framework for retention investment: personalisation and loyalty ecosystems should be



addressed first, followed by improvements to customer support and interface design, with communication strategies managed through a data-disciplined lens throughout.

As digital commerce continues to mature and as technologies such as artificial intelligence, conversational commerce, and augmented reality shopping environments become more deeply embedded in the consumer experience, the underlying principles of trust, perceived value, and seamless interaction will remain the defining pillars of an effective customer retention strategy.

12. SCOPE FOR FURTHER RESEARCH

- Future investigations should assess the long-term retention effects of AI-driven hyper-personalisation across distinct e-commerce verticals, with careful attention to emerging privacy concerns and regulatory frameworks that govern data use.
- Extended longitudinal studies tracking retention behaviour across a 12 to 24-month window are needed to clarify how the effectiveness of loyalty schemes and gamification mechanics shifts across different phases of the customer lifecycle.
- Research examining cross-platform retention — specifically how consumers move between mobile and web interfaces and what strategies sustain loyalty across both — represents a largely unexplored but commercially significant area.
- The moderating influence of digital literacy and socioeconomic status on retention strategy effectiveness in Tier II and Tier III Indian urban contexts deserves dedicated empirical attention.
- The connection between influencer-led social media engagement and customer retention, as distinct from its role in initial acquisition, remains an understudied topic and represents a particularly promising avenue for future scholarly inquiry.

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