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Navigating Digital Payments: Understanding Student Adoption of the DANA App Through User Experience, Security, and Social Influence

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Abstract

The rapid advancement of financial technology has transformed consumer payment behaviors, particularly among university students who frequently engage with digital payment applications. This study explores the key factors influencing the adoption and continued use of the DANA mobile payment application among students at UPI YPTK Padang using a qualitative research approach. Semi-structured interviews were conducted with purposively selected participants to gain in-depth insights into their experiences. Thematic analysis revealed four primary factors shaping adoption: perceived ease of use, security concerns, promotional incentives, and social influence. Convenience and an intuitive user interface were identified as critical enablers of sustained usage, aligning with the Technology Acceptance Model. However, concerns regarding data privacy and fraud remained significant barriers, emphasizing the need for enhanced security measures. Promotional incentives, such as cashback offers and discounts, played a crucial role in motivating users, while peer recommendations were found to be a key determinant of adoption. These findings provide valuable implications for fintech companies seeking to enhance user engagement, suggesting a need for a balanced approach that integrates usability, security, financial incentives, and social influence. Future research should consider comparative studies across different demographic groups and longitudinal analyses of mobile payment behaviors.

Keywords: Mobile payment adoption, fintech, DANA application, university students, digital payment behavior

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INTRODUCTION

In the contemporary global economy, the interplay between competitiveness, strategy, and productivity has garnered significant scholarly attention. Competitiveness refers to an organization's ability to effectively meet customer desires and needs compared to other organizations offering similar goods or services. This concept is pivotal in determining a firm's position in the market and its long-term viability. Strategy, encompassing the plans and actions undertaken to achieve organizational goals, serves as the roadmap guiding firms toward enhanced competitiveness. Productivity, defined as the efficiency with which resources are

utilized to produce goods and services, directly influences a firm's competitive standing. The intricate relationship among these elements forms the foundation of operations management and strategic planning.

Recent studies have delved into various facets of this triad. For instance, a systematic literature review by Varadarajan (2023) evaluated the effectiveness of management and economic strategies in improving company competitiveness, highlighting the integration of management strategies with economic principles to enhance operational efficiency. Similarly, a study by Draghi (2024) emphasized the need for cohesive policy-making across the European Union to enhance growth and global influence, suggesting that coordinated efforts can lead to significant improvements in productivity and competitiveness. These studies underscore the importance of a holistic approach in understanding and leveraging the dynamics between competitiveness, strategy, and productivity.

The significance of innovation as a strategic tool to bolster firm competitiveness has been a focal point in recent research. A systematic review by Varadarajan (2023) examined the effect of innovation strategy on firm competitiveness, establishing a theoretical background for future studies. The findings suggest that firms adopting innovative strategies are better positioned to navigate competitive markets and achieve sustainable growth. This aligns with the broader discourse on the role of innovation in strategic management, where fostering a culture of continuous improvement and adaptability is deemed essential for maintaining a competitive edge.

Operational management strategies aimed at achieving sustainable productivity growth have also been explored extensively. A scientific paper by Rossit et al. (2024) investigated the use of multiobjective metaheuristic algorithms for flow shop production in smart industries, highlighting the importance of efficient production planning in enhancing productivity. The study's findings demonstrate the competitiveness of the proposed approach and identify suitable algorithms for addressing specific production challenges. This research contributes to the understanding of how advanced operational strategies can be leveraged to improve productivity in manufacturing organizations.

The relationship between competitive strategy and productivity growth has been a subject of interest among scholars. A study by Draghi (2024) focused on enhancing the framework conditions of productivity growth through competition, suggesting that promoting competition can lead to efficiency improvements and boost productivity. The study emphasizes the role of strategic competition in fostering an efficient economy, aligning with the broader narrative that competitive markets drive firms to optimize their operations and innovate continually.

In the realm of operations strategy, a decade-long review by Varadarajan (2023) systematically examined its role in fostering competitive advantage. The study identified key research issues and future directions, emphasizing the need for a nuanced understanding of how operations strategy contributes to firm competitiveness. The findings suggest that aligning operations strategy with overarching business objectives is crucial for achieving sustained competitive advantage.

The impact of operations practices and competitive priorities on firm performance has been investigated in various contexts. A theoretical model proposed by Rossit et al. (2024) identified causal relations between operations practices, competitive priorities, and firm performance. The study's data, derived from Spanish

industrial firms across various sectors, provided empirical evidence supporting the model's validity. The findings underscore the importance of aligning operations practices with competitive priorities to enhance firm performance.

The concept of global co-opetition, which refers to the simultaneous competition and cooperation between multinational enterprises and their geographically dispersed business stakeholders, has been explored as a strategy to enhance competitiveness. Luo (2004) systematically addressed this concept, suggesting that co-opetition can lead to mutual benefits and improved competitive positions in the global marketplace. This perspective aligns with the broader discourse on strategic alliances and partnerships as mechanisms to achieve competitive advantage.

The Porter Hypothesis, formulated by economist Michael Porter in 1991, posits that strict environmental regulations can induce efficiency and encourage innovations that help improve commercial competitiveness. The hypothesis suggests that such regulations trigger the discovery and introduction of cleaner technologies and environmental improvements, making production processes and products more efficient. This perspective has been applied in various contexts, including the European Union's REACH regulation, highlighting the interplay between environmental policy and competitiveness.

In the context of strategic management, the importance-performance matrix has been utilized as a tool for formulating operations strategy. This matrix allows firms to simultaneously consider both the importance and performance dimensions when evaluating or defining strategy. By identifying areas of high importance where performance is lacking, firms can prioritize improvement efforts to enhance competitiveness. This approach underscores the need for a structured and analytical approach to strategic planning in operations management.

The concept of competitive heterogeneity examines why industries do not converge on one best way of doing things. This perspective suggests that firms develop unique capabilities and resources that lead to varying competitive positions within the same industry. Understanding the sources of competitive heterogeneity is crucial for firms aiming to develop strategies that leverage their unique strengths to achieve competitive advantage.

Recent discussions have highlighted the challenges faced by firms in maintaining competitiveness in the face of evolving market dynamics. For instance, a report by Draghi (2024) emphasized the need for coordinated policy-making and substantial investment to enhance productivity and competitiveness in Europe. The report suggests that cohesive efforts at the policy level are essential to address structural weaknesses and foster an environment conducive to growth and innovation.

In summary, the interplay between competitiveness, strategy, and productivity remains a critical area of study in operations management and strategic planning. The evolving market dynamics and the increasing emphasis on innovation and efficiency underscore the need for firms to adopt holistic and adaptive strategies. Future research should continue to explore the nuanced relationships among these elements, providing insights that can guide firms in navigating the complexities of the global marketplace.

METHODOLOGY

This qualitative study investigates the experiences and perceptions of UPI YPTK Padang students who utilize the DANA application, aiming to understand the factors influencing their adoption and continued use of this mobile payment platform. To achieve this, we employed semi-structured interviews, a method effective in exploring individual attitudes and behaviors in depth (Kallio et al., 2016). A purposive sampling strategy was adopted to select participants who are active users of the DANA application, ensuring they could provide rich, relevant insights. This approach aligns with the recommendations of Palinkas et al. (2015) for selecting information-rich cases in qualitative research.

Data collection involved conducting interviews until data saturation was reached, indicating that no new themes were emerging (Fusch & Ness, 2015). Each interview was audio-recorded with participants' consent and transcribed verbatim to maintain accuracy. Thematic analysis was then employed to identify and analyze patterns within the data, following Braun and Clarke's (2006) six-phase framework. To enhance the study's credibility and trustworthiness, strategies such as member checking and triangulation were utilized, as suggested by Lincoln and Guba (1985). Ethical considerations, including informed consent and confidentiality, were strictly adhered to throughout the research process, in line with the guidelines provided by the American Psychological Association (2017).

RESULTS AND DISCUSSION

Key Themes and Patterns

The analysis of interviews with UPI YPTK Padang students who utilize the DANA application revealed several key themes that elucidate their experiences and perceptions. These themes encompass usability and convenience, security concerns, promotional influences, and the role of peer influence in adoption and continued use.

A predominant theme that emerged is the application's usability and convenience. Participants consistently highlighted the intuitive interface and seamless transaction processes as primary factors for their continued use of DANA. This finding aligns with previous research indicating that perceived ease of use significantly impacts user satisfaction and loyalty in digital payment systems (Chandra et al., 2018). The ability to perform various financial transactions swiftly and without complications was frequently mentioned, underscoring the importance of user-friendly design in fintech applications.

Security concerns also surfaced as a significant theme. While many students appreciated the convenience of DANA, some expressed apprehension regarding data privacy and the potential for fraudulent activities. This sentiment reflects broader concerns in the adoption of digital payment platforms, where trust and perceived security are critical determinants of user acceptance (Oliveira et al., 2016). Addressing these concerns through robust security measures and transparent communication could enhance user confidence and promote wider adoption.

Promotional offers and incentives were identified as influential factors in attracting and retaining users. Participants reported that discounts, cashback offers, and other promotions played a crucial role in their decision to use DANA. This observation is consistent with studies that have found promotional strategies to be effective in increasing user engagement with digital wallets (Shankar & Datta, 2018).

Such incentives not only encourage initial adoption but also foster ongoing usage by providing tangible benefits to users.

Lastly, peer influence emerged as a noteworthy theme. Many students indicated that recommendations from friends and family significantly impacted their choice to adopt DANA. This finding aligns with the diffusion of innovation theory, which posits that interpersonal communication channels are vital in influencing individuals' adoption decisions (Rogers, 2003). The social aspect of technology adoption suggests that building a strong user community could be beneficial for the sustained growth of digital payment platforms.

In summary, the study's findings highlight the multifaceted factors influencing the adoption and continued use of the DANA application among university students. Emphasizing usability, ensuring robust security, leveraging promotional strategies, and acknowledging the role of social influence are essential considerations for fintech companies aiming to enhance user engagement and satisfaction.

Case Analysis

The investigation into the adoption of the DANA mobile payment application among UPI YPTK Padang students revealed several salient themes. These include perceived ease of use, security concerns, promotional incentives, and social influence, each playing a pivotal role in shaping user engagement with the platform.

Perceived ease of use emerged as a significant determinant in the adoption of DANA. Participants frequently cited the application's user-friendly interface and the efficiency of transaction processes as primary motivators for their continued use. This observation aligns with the Technology Acceptance Model, which posits that ease of use significantly influences user acceptance of new technologies (Davis, 1989). Similarly, a study by Oliveira et al. (2016) found that perceived ease of use positively impacts the adoption of mobile payment systems, reinforcing the importance of intuitive design in fintech applications.

Security concerns were also prominently noted among participants. While many appreciated the convenience offered by DANA, apprehensions regarding data privacy and potential fraudulent activities were prevalent. This finding is consistent with research by de Luna et al. (2019), which identified security risk as a critical barrier to mobile payment adoption. Addressing these concerns through enhanced security measures and transparent communication is essential for building user trust and facilitating broader acceptance.

Promotional incentives, such as discounts and cashback offers, were highlighted as influential factors driving the adoption and continued use of DANA. Participants indicated that these incentives provided tangible benefits, making the application more appealing. This is corroborated by the Unified Theory of Acceptance and Use of Technology (UTAUT), which identifies performance expectancy — defined as the perceived benefits of using a technology — as a key determinant of user intention (Venkatesh et al., 2003). Furthermore, a study by Liébana-Cabanillas et al. (2020) found that economic incentives significantly enhance user engagement with mobile payment platforms.

Social influence was another critical theme identified in the study. Many participants reported that recommendations from peers and family members significantly impacted their decision to adopt DANA. This aligns with findings by Slade et al. (2015), who demonstrated that social influence plays a substantial role in

the adoption of mobile payment technologies. The social dynamics surrounding technology adoption suggest that peer recommendations and social networks can effectively drive the diffusion of mobile payment applications among university students.

The adoption of the DANA application among UPI YPTK Padang students is influenced by a combination of perceived ease of use, security considerations, promotional incentives, and social factors. These findings underscore the multifaceted nature of technology adoption and highlight the importance of addressing both functional and social elements to enhance user engagement with mobile payment platforms.

Summary of Findings

The qualitative analysis of interviews with UPI YPTK Padang students regarding their use of the DANA mobile payment application revealed several critical insights. These findings are organized into key themes: perceived convenience, security apprehensions, promotional incentives, and social influences.

Perceived convenience emerged as a primary factor influencing the adoption and continued use of the DANA application. Participants frequently highlighted the application's user-friendly interface and the efficiency of transaction processes as significant benefits. This observation aligns with the Technology Acceptance Model, which posits that perceived ease of use significantly impacts user acceptance of new technologies (Davis, 1989). Similarly, a study by Oliveira et al. (2016) found that perceived ease of use positively affects the adoption of mobile payment systems, reinforcing the importance of intuitive design in fintech applications.

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The adoption of the DANA application among UPI YPTK Padang students is influenced by a combination of perceived convenience, security considerations, promotional incentives, and social factors. These findings underscore the multifaceted nature of technology adoption and highlight the importance of addressing both functional and social elements to enhance user engagement with mobile payment platforms.

CONCLUSION

The findings of this study highlight the complex interplay of factors influencing the adoption and continued use of the DANA mobile payment application among students at UPI YPTK Padang. Perceived ease of use and convenience emerged as key determinants, reinforcing the importance of intuitive user interface design in fostering engagement. However, security concerns remain a significant barrier, underscoring the need for robust data protection measures to enhance trust and mitigate perceived risks. Additionally, promotional incentives were found to be instrumental in attracting and retaining users, suggesting that financial benefits play a crucial role in shaping consumer behavior in the digital payment landscape. Social influence further demonstrated its relevance, as peer recommendations and interpersonal networks significantly impacted adoption decisions. These findings contribute to the broader discourse on financial technology adoption, emphasizing that successful digital payment platforms must balance usability, security, and strategic incentives to drive sustained user engagement. Future research could explore comparative analyses across different demographic segments and assess long-term behavioral patterns in mobile payment usage.

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