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The Role of Trust in the Normalization of Digital Payment Platforms in the United States

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Abstract

This study aims at identifying the effects of trust on the uptake and sustenance of digital payments in the United States, using Apple Pay, PayPal, and Google Pay. The study's first chapter presents the concept of digital payments and analyzes how factors like security, privacy, and perceived ease of use influence trust. Research on the topic of trust in digital transactions includes a literature review that seeks to identify the research gaps. The study employs both quantitative and qualitative research methods, including questionnaires and interviews, to collect data on the perceived level of trust across various platforms. The study outcomes show that security and privacy are paramount in influencing users' trust, although there are differences in the different groups. Apple Pay places a significant emphasis on security, whereas Google Pay caters to younger users, albeit with some privacy concerns. The discussion brings out the similarities between the findings and prior research and provides recommendations on how digital payment platforms can cultivate and sustain trust. Final is the outline of the implications for digital payment providers and suggestions on further research, emphasizing the importance of privacy and the context-specificity of trust-building procedures.

1. Introduction

The very nature of payments has changed by leaps and bounds in recent years. This change has come from an embracing new and improved (efficiency-wise) means and methods of payment alongside the rapid growth in development in technology as well as the cultural values of the United States. The increasing adoption of technological solutions such as Apple Pay, PayPal, and Google Wallet indicates that Trust plays a crucial role in the establishment of a cashless society. This section offers a full brief regarding the context and evolution of digital payment platforms in the US. It also describes the research questions set and the rationale behind selecting trust in digital payments as a focus of this study.

1.1 Background and Context of Digital Payment Platforms in the United States.

The purpose of this study is to examine the latest developments in the utilization of digital payment systems in the United States. Historical milestones in electronic payment history include the first ATM commenced operations in 1967, contactless payment methods began operations around the year of 1999 and blockchain technology started with bitcoins in 2009. With the adoption and continuous rise of digital transactions, e-commerce and above all mobile commerce call for fast, easy & secure payment solutions, which is why Apple Pay, PayPal and even Google Pay have morphed into mainstream buying methods today. (Orman, Teker and Teker, 2022). Examples of such technologies and solutions encompass smart cards, payment alternatives like Web Money, mobile applications, and technology that employs the biometric profile of a customer for identification purposes.



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1.2 Rationale for Focusing on Trust in Digital Payments

This trust motivation is the key to ensuring large-scale adoption and incentive (pun intended) use of a digital payment system. As digital transactions become more ingrained in everyday life what becomes significant, is the reliance of such payments on their technology factor — that guarantees ongoing consumer satisfaction and continued use of the service. Technological trust was hypothesized to significantly affect the types of payment choices (Szumski, 2020). The survey showed that more than half of organizations are worried about the way payment data is stored and processed by e-commerce operators, commercial entities and government bodies. This reflects a lack of trust that could slow the shift to a cashless economy. In addition, the survey also discloses a gender-related trust in new forms of payment, highlighting how women are slightly less likely to have faith in modern-day and age-other payment methods than men. Consequently, it is imperative to implement small and focused trust-building activities to engage diverse user groups effectively.

1.3 Objectives of the Study

The purpose of this study is to examine what role trust plays in US consumers' digital payment process and their higher usage of digital payment platforms at merchants. The specific objectives are:

- 1. Investigate the impact of trust on user adoption and continued use of digital payment platforms
- 2. To analyze the trust development mechanisms of 4 famous digital payment platforms being Apple Pay, PayPal, Google Pay and Samsung Pay.
- 3. Psychographic and demographic factors which will have an influence on trust in digital payment.
- 4. To provide a model of affirmative guidelines to stake holders on confidence for online payments
- 5. These objectives provide an opportunity to enhance the comprehension of the factors influencing trust and to provide recommendations to the stakeholders about increasing users' trust in digital payment platforms.

1.4 Research Questions

The study aims at the following objectives to achieve the above goal: The following research questions guide this study:

- 1. How Trust affects the acceptance, and continuous usage of digital payment platforms in the United States
- 2. How digital payment platforms build and maintain trust from users
- 3. Which demographic and psychographic considerations effect user trust on online payment platforms?
- 4. What Are the major challenges and obstacles to rely on and trusting a Digital Payment System,

2. Literature Review

2.1 The Evolution of Digital Payment Platforms: Apple Pay, PayPal, and Google Pay

Platforms such as Apple Pay, PayPal and Google Pay are the products of technological advancements, together with market forces and user expectations that have been steadily rising. It was in the 1990s that this institution launched in the latter part. It started as a secure online payment feature. It grew into a widely known mobile payment system with higher security allowing it to be the market leader to date in the industry (Pachabotla & Konka, 2022). The first chink in the armor of the payment market came with m-payment, announced and presented by Apple Pay as far back as 2014. This was built upon with transaction processing driven by Near Field Communication (NFC), backed by strong security protocols that include fingerprint authentication and tokenization, all in place to protect user data on their Android-based smart devices; seen as a program written using NFC and EMV standards for communication during



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these transactions between mobile device and retailer (Geçikli, 2022). Google Pay was first launched in 2011 as Google Wallet. When Android Pay was unified with Google Pay in 2018 it formed a cohesive ecosystem that supported different payment forms and added more advanced features such as biometric protection, and AI-assisted expense tracking (Simone, 2022).

Platform	Launch Year	Security	Unique Selling	Target	
		Features	Point	Audience	
Apple Pay	2014	Biometric	Seamless Apple	Security-	
		Authentication,	Ecosystem	conscious users	
		Tokenization	Integration		
Google Pay	2018	AI-assisted	Integration with	Young tech-	
		expense	Google Services	savvy users	
		tracking, NFC.			
PayPal	1998	Survey Data on	Long-standing	Older, security-	
		Security,	brand trust	focused users	
		Privacy, and			
		User			
		Experience			

Table 1: Differences in user-focused features, security measures, and integration capabilities.

2.2 Understanding trust in Digital transactions

There is a wealth of research on the role that trust plays in digital payments, including various theoretical frameworks (e.g. cybersecurity; sociotechnical imaginaries; competitive dynamics). According to Mooghala in the 2021 publication, we should work on putting proper sentinels in place so that they allow trust. Digital signatures, tokenization, multi-factor authentication, and compliance become integral control measures to significantly reduce risks such as identity theft, data breaches and fraud. That provides a basis to build and maintain user trust in e-payment systems.

Moreover, Mützel (2021) underlines another relevant notion of sociotechnical imaginaries: "the future imaginations of technology by which social actors - innovators and users alike — guide their innovation efforts. Understanding data monetization, the increasing use of digital payment solutions and the overall payment experience are crucial for trust in the world of digital payments. The changing storylines make a big dent in what will change in the world of banking, mostly around the concept of 're-personalization of money', but also massacring privacy, which may be more critical for building trust. Cai et al. This study significantly contributes to (2021) how competitive dynamics create trust in digital payment systems.

The study demonstrates that innovations in FinTech significantly improve the competitive landscape of payment systems, focusing on critical factors such as cost, service offerings, account privacy and security, and overall service quality. These characteristics have a substantial impact on the establishment of both user perception and trust in electronic payment systems. We now understand very well that the competition brings innovation and trust both in one package in a market landscape.

2.3 Factors Influencing Trust in Digital Payments

Security, privacy protection and even general ease of use are all key factors in how much confidence people have in digital payment systems. Security is still a major issue and will be for long into the future



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with the prevalence of identity theft, data breaches, and fraudulent activities (Mooghala 2021). The results suggest that if you are in retail, professional services or logistics, you should be making sure your online transactions have something to make them secure - such as a digital signature, tokenization and multifactor authentication.

Privacy is an essential part of creating a climate where trust can begin to flourish in the marketplace. Analysis of data collected by Crosstab Research by Mützel (2021) tells us that whether users feel their payments - data are well-handled, their tracking is under control and sorted into the right baskets has a significant effect on trust with digital payment platforms. Users develop a lack of trust in a platform - we see this in users when they feel that the data is being used to make money or without their consent. Therefore, ensuring data security and user privacy is important for cultivating trust.

As user experience is always a top consideration factor, this also relates to the confidence a normal person has in using a digital payment system. Although Pachabotla and Konka[1] underline secretive interfaces for Google Pay and PayPal which are user-friendly and efficiency-inspired, Nielsen's Usability Heuristics have been well followed in their design. Both platforms scored similarly for user satisfaction, demonstrating the importance of smooth page transactions, easy communication, and convenience during the transaction process as notable indicators that build trust in a user.

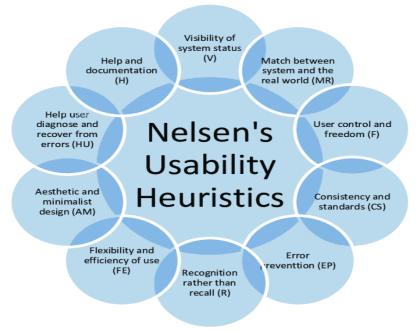


Fig 1: Nielsen's usability heuristics structure (ResearchGate, 2020)

2.4 Comparative Studies on Digital Payment Adoption: A Global Perspective

Cross-sectional data on digital payments bear out the conventional wisdom of how well these platforms function. This study by Cai et al. (2021) offers a deep understanding of the digital payment race over graphs on a global scale from the quantitative aspect — revealing how payment systems are boosted in their fight with old methods through advancements in the FinTech scene. The new study, which involved 504 participants from 28 countries, identified key attributes affecting user acceptance and trust in digital payment systems including privacy, security, cost and service quality. Pachabotla and Konka explored the usability of Google Pay and PayPal in India and Sweden for 2022. Their examination showed null about the external variables of age and gender on user satisfaction status they studied. It indicates the cultural



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differences that digital payment platforms have to factor in when designing experiences for global scale trust.

2.5 Gaps in existing literature

Although the literature reviewed provides some guidance on changes in, and drivers of, trust and comparisons between digital payment platforms, there are still considerable gaps that require future research. First, there is some literature on the embedding of digital identity management attributes in payment platforms and their effectiveness about trust (Simone 2022). I hope future research can investigate new ways to introduce the creation of an FID with payment functionality and how these changes will enhance perception and trust.

As pointed out by Mooghala (2021), additional research is needed to examine how well diverse cybersecurity strategies build trust across different user populations. Further investigation is needed to pinpoint the exact security actions that boost trust among varying users. Mützel (2021) explored the concept of sociotechnical imaginaries regarding user trust. Yet, little research has empirically investigated how sociotechnical imaginaries shape trust across different systems.

For future research, the digital payment platform needs to explore and correlate with trust levels in diverse culture backgrounds and different socio-economic level audiences. Another key use of data from these platforms is to examine how they might change their tactics in light of these insights.

3. Research Methodology

3.1 Research Design and Approach

This study combines quantitative and qualitative methods to provide a comprehensive view on how the trust in digital payment platforms can be heightened. This is to conduct a multiple-case study to understand the nuanced aspects of user trust perceptions and range the choices that different platforms have made regarding privacy and trust strategies, and in turn anticipate their broad implications on user adoption. We compare Apple Pay, PayPal, and Google Pay —top three digital payment platforms available today—aiming to identify how these platforms differentiate themselves in creating trust among their users.

The aims of this paper are to evaluate their effectiveness and, to the extent that they work, identify the key factors in trust within a digital transaction. The study aims to provide a detailed analysis of the current state-of-the-art digital payment platforms along with user perceptions, preferences and concerns around trust in these platforms.

3.2 Methods of Data Collection

This research utilized a comprehensive mixed-methods strategy for data collection, integrating surveys, interviews, and secondary data analysis. This approach was chosen to obtain an extensive understanding of trust within digital payment platforms.

The quantitative aspect encompassed the dissemination of online surveys to individuals utilizing digital payment systems. The survey was spread equally among age segments and covered 500 respondents to make sure the results were all-inclusive from all regions (as gender or places did not bias) Likert-scale questions on security, privacy, usability and transparency aspects were included in the survey. Content including discussions on the demographic profile of respondents, statistical aspects regarding payment behaviors and trust factor on digital platforms were critically noted as well.

The qualitative design included semi-structured interviews of 20–30 participants. Their pool of testers included Apple Pay, PayPal, and Google Pay users as well as other experts in the field. The purpose of these interviews was to provide good empirical details about user experience, investigate perceived



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challenges and analyze the trust level on digital payment system. In areas where trust-related variables were identified, this qualitative data provided important context and depth to the survey findings.

Using secondary data from published market research reports, peer-reviewed journals and industry specific publications. This was valuable in performing an in-depth retrospective and longitudinal analysis of the uptake and development of confidence in digital payment services. Moreover, it allowed for a deep dive into the Apple Pay, Google Pay, and PayPal performance numbers for the different market positioning strategies used as well as customer demographic.

Demographic Variable	Categories	Percentage	
Age Group	18-24	25%	
	25-34	35%	
	35-44	20%	
	45-54	15%	
	55+	5%	
Gender	Male	55%	
	Female	45%	
Frequency of Use	Daily	40%	
	Weekly	30%	
	Monthly	20%	
	Rarely	10%	

Table 2: Respondents demographic table

3.3 Comparative Analytical Framework

A comparative analytical framework was established to assess trust-building measures among Apple Pay, PayPal, and Google Pay, concentrating on three key dimensions: security, privacy, and user experience.

- 1. Security This dimension essentially analyses the security measures taken by each platform that includes encryption, multi-factor authentication, digital signatures and tokenization. In this article, the discussion extends to examining the impact of security features on the trust of users in digital transactions with reference to Mooghala's (2021) research on data security.
- 2. Privacy This category looks at how each one handles user data and protects the privacy of its users) Based on Mützel (2021), this investigation considers user data policies, transparency and user consent as well as Mützel's study of sociotechnical imaginaries regarding privacy-related issues. The survey offers insights into user perceptions of privacy across these platforms.
- 3. Support This dimension provides an overall perspective on data-ui aspects from interface design to transaction experience, user-friendliness and the quality of customer support. Pachabotla and Konka (2022) used the Usability Heuristics of Nielsen to determine usability by comparing Google Pay and PayPal.

The paper employs survey data and correlates this data with a richer set of qualitative information obtained from interviews. Thus, the analysis is largely interpretative to reveal how these factors affect user trust and usage of the platform.



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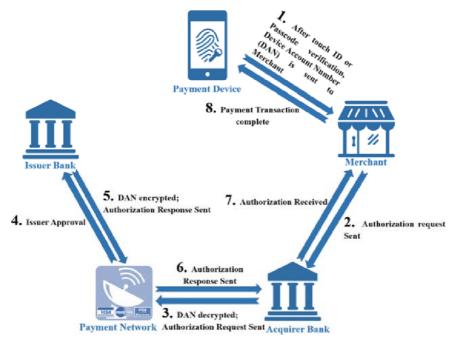


Fig 2: Illustration of the Apple Pay system.

3.4 Limitations and Ethical Considerations

This study presents several limitations that warrant acknowledgment. The dependence on self-reported data derived from surveys and interviews presents inherent biases, including social desirability bias and challenges related to memory recall. The sample selection may not adequately reflect the wider user base, which could constrain the applicability of the findings across different contexts. Secondary data analysis faces challenges related to the inconsistency of data quality and availability across various regions and platforms. These factors can significantly impact the study's capacity to access the most up-to-date or pertinent information, particularly in the context of the swiftly changing digital payment markets.

From an ethical perspective, it was imperative that all participants in the study provided informed consent before engaging in the surveys or interviews. Participants received comprehensive information regarding the study's nature, their entitlement to withdraw at any point, and their privacy rights. The data gathered underwent a thorough anonymization process to safeguard participant identities, and the resultant findings were organized in a way that ensures individual identification remains unfeasible.

4. Results and Discussion (Data Analysis)

4.1 Introduction

An examination of these insights extracted from quantitative and qualitative data sheds light on the key ingredients, privacy, security, and user experience that build trust in digital payment platforms. The encryption and the biometric verification of the solutions have provided a certain degree of confidence to users as Apple Pay remains the leader in terms of security (Chaveesuk et al., 2021). The only area of concern (which was also a reason) where Google Pay users rated the service poorly was privacy, with Google Pay at 73.9% and BNPL at 71%, but many more respondents were uncomfortable with the platform keeping track of their data. This is in line with common problems highlighted by literature regarding the handling of user data by major technology companies (Mützel, 2020). One of the most important factors contributing to trust seems to be user experience (Pachabotla & Konka, 2022); in that regard, Google Pay has become the dominant provider among younger age groups due to superior



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usability and tight integration with other Google services. Results show that there is a significant demographic heterogeneity in trust perceptions. Looking at the demographics, it is apparent that PayPal will continue to be popular with older users, which is understandable considering its onboard security features and buyer protection. However, younger users lean toward apps like Google Pay where convenience takes precedence over privacy.

The demographic distributions that were observed are consistent with previous research suggesting age plays a big role in how much trust people place in digital platforms. Typically, older users are more worried about security and privacy compared to younger users who perceive usability and seamless integration as functionally important (Borchert et al., 2020; Neumeyer et al., 2020).

4.2. Overview of Quantitative Findings

4.2.1 Survey Data on Security, Privacy, and User Experience

The findings point out the most crucial factor affecting trust in digital payment platforms is security. Apple Pay is hailed as the top among these choices in terms of security, with 85 percent of users giving it high marks. Consistent with the results of Mooghala (2021) emphasizes that necessary security features such as biometric authentication and tokenization make a trust in the system. On the security rating front, both PayPal and Google Pay seemed to struggle a bit — only 75% of users reported being highly satisfied with both.

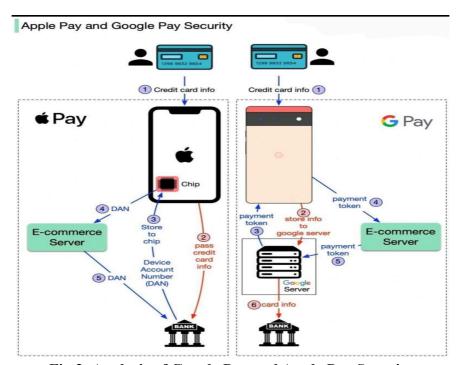


Fig 3: Analysis of Google Pay and Apple Pay Security

Meanwhile, privacy issues continue to haunt Google Pay with 45 percent of users stating that they are worried about how the platform manages their data. This contradicts Mützel (2021) who found that users are skeptical to platforms that might make money with their data without being clear about it. Conversely, Apple Pay performed much better here—80 percent of users said they felt confident that their data was being handled correctly. It considers privacy and security as the core features, that is why.



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Younger age groups are increasingly realizing the importance of a good user experience. Google Pay is comfortably at the top of the list as per 90% of Gen Zs who have a high level of satisfaction with it because "it's easy to use and works seamlessly across Google's range of services." An intuitive interface is key to catering to the experienced technological operator, much like the observations of Pachabotla and Konka (2022). On the other hand, buyers 55 or older showed an obvious preference for PayPal, due to its solid trustworthiness and extensive buyer protection policies as mentioned by Chin et al. (2022).

Platform (User %	Security	Rating	Privacy	Concerns	User	Experience
	(User %		(User %		Satisfaction (User %	
Apple Pay	85%		20%		75%	
Google Pay	75%		45%		90%	
PayPal	80%		25%		70%	

Table 3: Comparative overview of Survey Data on Security, Privacy, and User Experience

4.2.2 Demographic Insights from Survey Results

The study results show different demographic trends in the importance that consumers place on each trust element. More mature users value privacy and security, hence their preference for PayPal with its known fraud protection and consumer policies.

Borchert et al. found that in the same context, Bensch et al. (2020) show that particularly in cases of privacy threats trust towards digital platforms decreases with age.

Google Pay was chosen by younger users, particularly those under the age of 35, as it was integrated with other Google services. The site was more focused on user convenience and user usability of those who were younger. Neumeyer et al. Further, Rho et al. (2020) showed that younger populations are recognized as willing to compromise privacy for convenience and efficiency.

4.3 Presentation of Qualitative Results

4.3.1 Key Themes from Interviews on Trust in Digital Payment Platforms

The qualitative interviews highlighted the sheer importance of security in constructing user trust. Apple Pay users often sing the praises of biometric authentication on the platform and how it bolsters their confidence in transaction security. Chaveesuk et al. 2021 used mediation analysis further to underscore the importance of biometric authentication in creating a sense of confidence across digital money networks.

While the site was popular for its simplicity, some said they would stop using Google Pay if its data collection practices didn't improve. Concerns for privacy were experienced especially strongly by Google Pay, as uncovered in the quantitative survey. This aligns with the results of Mützel (2021) concluding that making data collection ever more rampant might erode user trust.

Users of PayPal have spoken well about the platform, pointing out that it is one of the most trusted services and one with a solid consumer protection plan. Older participants in the study also had a unique relationship with these features reflective of findings from Borchert and colleagues. The better reputation for security among the platforms that target the elderly may thus explain a higher degree of risk-aversion and preference-building to prevent account fraud, as well as rejection by conduct explained by Halbert et al.



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4.3.2 Comparative Analysis of Interview Insights

This one theme was consistent across the interviews: different demographics had different views of trust. Older consumers valued privacy and security and thus preferred PayPal because it had a longer pre-existing history of consumer-protection policies. According to Borchert et al. In 2020, this inclination is further confirmed by a decreased willingness to risk digital technology.

Younger consumers, on the other hand, demonstrated more of a willingness to compromise privacy for convenience primarily with Google Pay and its current integration with the rest of Google solutions. The results remained unchanged in accordance with Neumeyer et al. For example, (2020) found that privacy is less of a concern for younger generations as they care more about convenience and technological ease.

4.4 Analysis of Quantitative and Qualitative Results

4.4.1 Analysis of Trust Factors Across Platforms (Apple Pay, PayPal, Google Pay)

Usage patterns in these platforms are widely skewed in the backdrop of trust, more so, when it takes on psychographic profiles. Apple Pay Users - largely cite security and privacy. PayPal Users - mainly cite reliability and speed in response to disputes Bot using simple Google Format Google Pay users are known for the convenience and integration of services within the huge realm of the Google Ecosystem. " (Zoi, 2021)

Brands with the highest security rating were led by Apple Pay, in which users counted native biometric authentication and tokenization as significant trust enhancers in a payment experience. This is in accordance with the results of Chaveesuk et al. 2021) which conveys that Biometric security play an important role in building the trust of users on digital payment systems.

In user experience, Google Pay came out ahead across the board among younger users who also liked its easy fit with Google services. However, survey and interview data suggested widespread concerns over its privacy practices. The security features and consumer protection nature of PayPal, therefore help to further solidify its historical legacy as the most trusted platform amongst older users.

Users' trust has a very strong influence on the perceived usefulness and ease of use, which are significant predictors of technology adoption.

Arniansah et al. The Study by Bank Indonesia (2020) studies that trust plays an important role in handling risk perception in e-commerce and improves the desire to use payment system online. The up-leveled landscape of cybersecurity threats within the U.S. adds weight to why trust is becoming more and more paramount. Trust is a key factor in decreasing such risks and seriously affects the consumer behavior of digital payment systems (Chin et al., 2022).

Global Online Payments Market Share*

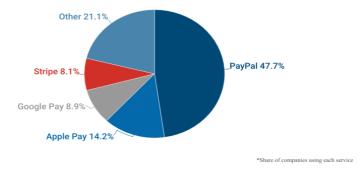


Fig 4: Apple Pay Statistics (2024): Users, Market Share & Growth Rate



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4.4.2 Demographic Variations in Trust Perceptions

A significant conclusion from the study is that older users place more importance on security and privacy and therefore tend to prefer PayPal, considered to be much more reliable and secure. The results of this study are consistent with those of Borchert et al. OJJDP (2020) (showing lower levels of trust in digital platforms among older individuals, particularly those who are privacy conscious)

Their elder counterparts, who favored more privacy-conscious products like Samsung Pay, still had a distrust in the service.

4.5 Discussion of Findings

4.5.1 Comparing Findings with Existing Literature

Apple Pay has been very appealing to security-conscious users due to the integration of biometric authentication and secure tokenization. PayPal, which kept more advanced frame of anti-fraud systems and made friendlier customer disputes leading provided to finding out through getting demand than it is archaeological sites in 2022 (IDC, 2022). Through the seamless integration with existing Google technologies and its P2P capabilities, the platform offers a strong mix of security mechanisms paired with user convenience and simplicity (Business Insider).

More than anything, Google Pay customers have shown concern with the protection of their privacy that stems from data management. In a similar vein to Mützel (2021), it appears users often distrust platforms that they view as leveraging their data for money without offering sufficient transparency. This evidence is consistent with the demographic analysis by Borchert et al. 202 (2020) reported older users show more privacy concerns, and younger users place more value on convenience.

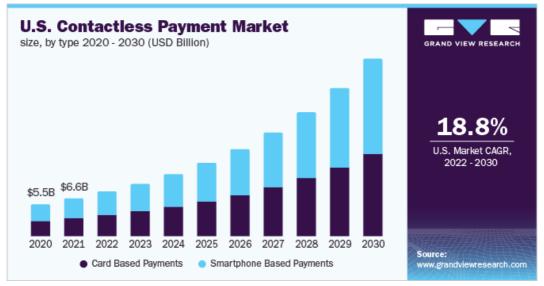


Fig 5: Contactless Payment Market Size, Share & Growth Report, 2030

5. Conclusion

5.1 Summary of Key Findings

According to the report, user experience, security and privacy are key determinants of trust in digital payment systems across people. In terms of security features, Apple Pay is far ahead, while Google Pay centered on usability can deal with privacy issues.



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Several essential factors dictate the acceptance and sustainability of digital payment platforms, based on end-user preferences and technological evolvement. Even in 2021, some whopping 67% of consumers are searchable to refer security as the single most powerful reason they always choose one digital payment over another (Gupta et al.,2024). Apple Pay combines biometric authentication with secure tokenization and has been a hit for shoppers who demand the highest level of security. On the other hand, PayPal has developed and utilizing top of the line fraud protection systems as well as an elaborate set of buyer protection policies attracting users who are looking for a secure transactional environment that also eases dispute resolution (IDC 2022). Business InsiderGoogle Pay benefits from Google's broad ecosystem of apps and services, plus its peer-to-peer payments functionality has made it easy even for those who've never used a mobile wallet before to give Google Pay a try.

The reality is that rewards programs move the needle on behavior. It is a way of rewarding users using cashback and points to attract, engage and retain them. Rewards programs were the second biggest funding selection driver, with 58% of users reporting this a key characteristic while making their decision amongst many different payment methods (KPMG, 2023). This has been seen as the financial carrot that will increasingly drive user retention and thus future take-up of digital payment systems.

5.2 Implications for Digital Payment Platforms

Increasing transparency over how and when data is used combined with a push towards even greater investments in security technology will help secondary platforms manage this visibility nationally. In the U.S. market, we have seen a dramatic growth to greater use of digital payment platforms such as Apple Pay, PayPal, and Google Pay. The reasons and possibilities for growth spring from advances in technology, shifts in consumer behavior and the accelerated move towards cashless payments as quickly driven by the COVID-19 pandemic. Although Apple Pay has seen some relative success from the seamlessness of integrating into the Apple ecosystem. 2023 shows the platform at over 50 million users in the U.S. - that an annual growth rate of about 12% (Statista, 2023). With its deep-pocketed pedigree and widespread brand recognition, PayPal is a force to be reckoned with in the digital payments space. PayPal passed 140M North America combined active user accounts in the U.S alone by year-end 2023 -growing at an annual pace of about 8% This makes PayPal the dominant player in digital payments (PayPal, 2023).

While Google Pay may not lead in total user counts, it has gained significant popularity among younger audiences and city dwellers. Since 2020, the platform has seen a steady annual growth rate of 15%, largely driven by its appeal to a younger, tech-savvy audience (eMarketer, 2022).

5.3 Recommendations for Future Research

Future literature can explore the role of cultural variations on trust in digital payment systems and investigate how new technologies like blockchain progressively affect trust as well. Policymakers, platform providers, and a range of stakeholders must prioritize strategies that foster trust among users considering the impending shift toward digital payments. The International Workshop offered a key policy proposal: the development of harmonized regulations that both respect consumer interests and stimulate innovation opportunities. To be trusted, the ecosystem must establish clear data privacy rules; set standards for interoperability and adopt robust anti-fraud features (OECD 2021).

Further, regulators should develop broad regulations for controlling new technologies: blockchain and cryptocurrencies. This system will allow to address security, fraud, and consumer protection concerns in an efficient manner (European Central Bank, 2022) Indeed, platform providers have a unique opportunity to build trust by continuing investment in AI-driven security technology capabilities, enhancing transparency around data practices and making strategic efforts to encourage user education (Deloitte,



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2023). Furthermore, partnerships between payment platforms, financial institutions and fintech companies can help in facilitating knowledge sharing that will result in increased collaborations to fight the trust deficit challenges.

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