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A STUDY ON ANALYZING THE ADOPTION AND SATISFACTION LEVELS OF DIGITAL WALLETS IN BANKING SECTOR

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ABSTRACT

Introduction: This research endeavors to address the critical issue in the adoption and satisfaction levels of digital wallets within the banking sector. The research problem centers on understanding the factors influencing digital wallet adoption and satisfaction, particularly exploring whether gender plays a significant role in shaping these dynamics. Against the backdrop of the digital transformation in banking services, this study aims to contribute valuable insights into enhancing inclusivity and user satisfaction.

Methods: Employing a cross-sectional research design, this study utilizes convenience sampling to gather data from 200 participants within the banking sector. The research methodology incorporates a structured questionnaire employing Likert scales to assess adoption patterns and satisfaction levels. The sample is stratified based on gender and age groups. Data analysis involves descriptive statistics, independent samples t-tests for gender differences, and One-Way ANOVA tests for age group comparisons.

Results: The results highlight a gender disparity in both the adoption patterns and satisfaction levels of digital wallets. Female participants exhibit a higher mean adoption score and satisfaction level compared to their male counterparts. Statistical analyses reveal significant differences, emphasizing the need for tailored strategies to meet the distinct preferences of male and female users. Age-related variations, however, do not emerge as significant factors influencing adoption patterns or satisfaction levels.

Conclusion: In conclusion, the study underscores the importance of gender-sensitive approaches in designing and promoting digital wallet services in the banking sector. The findings imply that financial institutions need to customize their strategies to cater to the unique preferences and concerns of both male and female users. While age does not play a significant role in shaping digital wallet dynamics in this context, continuous efforts are warranted to ensure a user-centric and inclusive digital banking experience.

KEYWORDS: Digital wallets, banking sector, gender disparity, adoption patterns, user satisfaction.

INTRODUCTION

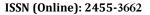
In recent years, the landscape of banking services has undergone a transformative shift, with digital innovations playing a pivotal role in shaping the financial ecosystem. Among these advancements, digital wallets have emerged as a key facet of modern banking, offering customers a convenient and efficient means of conducting financial transactions. As the adoption of digital wallets continues to rise, understanding the factors influencing their uptake and gauging customer satisfaction levels becomes paramount for financial institutions seeking to deliver seamless and user-friendly services.

The banking sector is witnessing a paradigm shift in consumer behavior, driven by technological advancements and changing preferences. The ubiquity of smartphones, coupled with the increasing reliance on online channels for financial activities, has paved the way for the integration of digital wallets into everyday banking experiences. However, despite the growing popularity of digital wallets, several factors contribute to the varying degrees of adoption among banking customers.

This research endeavors to delve into the intricacies of digital wallet adoption within the banking sector, with a dual focus on understanding the adoption patterns and assessing customer satisfaction levels. The study aims to uncover the underlying factors that either propel or hinder the widespread adoption of digital wallets and to evaluate how well these digital payment solutions align with the expectations and preferences of banking customers.

SIGNIFICANCE OF THE STUDY

This research holds significance in shedding light on the dynamics of digital wallet adoption and satisfaction within the banking sector, addressing a critical gap in understanding consumer behavior and preferences. The findings will provide actionable insights for financial institutions to enhance their





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digital wallet services, fostering greater financial inclusion and customer-centric innovations.

SCOPE OF THE STUDY

The study will focus on customers within the banking sector, exploring their awareness, usage patterns, and satisfaction levels with digital wallets. Demographic variations and specific factors influencing adoption will be examined. While the research will primarily concentrate on a select set of digital wallet providers, the results aim to offer broadly applicable recommendations for improving digital wallet services in the broader financial landscape.

OBJECTIVE OF THE STUDY

- 1: Assess the Adoption Patterns of Digital Wallets in the Banking Sector
- 2: Evaluate Customer Satisfaction Levels with Digital Wallets in Banking Services

HYPOTHESIS OF THE STUDY

- 1. H0: There is a no significant difference in the adoption patterns of digital wallets and customer satisfaction levels with digital wallets between female and male participants within the banking sector.
- 2. H0: There is a no significant difference in the adoption patterns of digital wallets and customer satisfaction levels with digital wallets among different age groups within the banking sector.

REVIEW OF LITERATURE

The adoption of digital wallets in the banking sector is influenced by a range of factors. Parakh (2020) and Rathore (2016) both highlight the importance of security, trust, familiarity, and ease of use in driving adoption. Joshi (2019) emphasizes the role of customer perception and adaptability, noting that despite challenges, customers are increasingly open to digital banking. Tang (2019) adds a social dimension to the discussion, suggesting that the network effect and the social experience of digital wallets play a significant role in their adoption. These findings collectively underscore the need for digital wallets to prioritize security, trust, ease of use, and social interaction in order to drive adoption in the banking sector.

Research on the awareness of digital wallet services offered by banks has shown that social media plays a significant role in customer engagement and loyalty in the banking sector (Parashar, 2018). Factors such as gender, occupation, income, perceived usefulness, trust, security, and lifestyle compatibility influence the awareness and attitude towards mobile wallets (Chawla, 2021). The Indian government's initiatives and the increased use of mobile and internet have contributed to the growth of digital payments, but lack of awareness, fear of online payment, and security concerns remain barriers (Thangam, 2019). The popularity of digital banking among young consumers is driven

by factors such as time, convenience, security, loyalty/reward points, and discount deals (Singh, 2019).

The use of digital wallets for financial transactions is on the rise, driven by factors such as smartphone penetration, efficiency, and convenience (Handayani, 2020; Fadhilah, 2021; Sukaris, 2021). The COVID-19 pandemic has further accelerated this trend, as people seek to minimize physical contact (Fadhilah, 2021). Factors influencing the adoption of digital wallets include performance expectancy, social influence, facilitating conditions, hedonic motivation, and trust (Sukaris, 2021). Despite the increasing use of digital wallets, there are still challenges and risks associated with their use, such as security concerns (Rathore, 2016).

A range of factors influence the adoption of digital wallets, with attitude towards technology, anxiety, performance expectancy, incentive, trust, habit, and facilitating conditions being key predictors (Anshari, 2021; Malik, 2019; Widodo, 2019). These factors are particularly significant in the context of South East Asia, including Brunei Darussalam and Indonesia. The convenience and ease of use of digital wallets are also important drivers of adoption (Rathore, 2016).

Research on customer satisfaction with digital wallet apps has identified several key factors. Bagla (2018) found that attractive cashback and rewards, ease of use, and transaction security are important for user satisfaction. Sebayang (2022) applied the User-Centered Design method to improve the Finpay Money app, resulting in a significant increase in user satisfaction. Muhtasim (2022) highlighted the impact of security factors, such as transaction speed, authentication, and encryption mechanisms, on customer satisfaction. These studies collectively suggest that a user-friendly interface, attractive incentives, and robust security features are crucial for enhancing satisfaction with digital wallet apps.

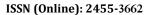
RESEARCH METHODOLOGY

1. Research Design:

- Type of Study: This study adopts a cross-sectional research design to analyze the adoption patterns and satisfaction levels of digital wallets in the banking sector
- **Sampling Method:** Convenience sampling is employed to select participants based on their accessibility and willingness to participate in the study.

2. Participants

- **Sample Size:** A total of 200 participants from the banking sector were included in the study.
- **Demographic Characteristics:** Participants were categorized by gender and age groups, with 61.0% female and 39.0% male. Age groups included 41.0% in the 31-40 range, 36.0% in the 41-50 range, 12.0% above 50, and 11.0% under 30.





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3. Instrumentation

- **Survey Instrument:** A structured questionnaire was used to collect data, employing a Likert scale to measure participants' responses regarding adoption patterns and satisfaction levels.
- **Likert Scale:** Participants rated their responses on a 5-point Likert scale, ranging from 1 (Strongly Disagree) to 5 (Strongly Agree).

4. Variables

- Independent Variables: Gender and age groups.
- **Dependent Variables:** Adoption patterns of digital wallets and customer satisfaction levels.

5. Data Collection

- Procedure: Participants were approached through digital channels and in-person interactions within the banking sector. Informed consent was obtained before administering the survey.
- **Data Collection Period:** The data collection process spanned a defined period to ensure a representative sample.

6. Data Analysis

- **Descriptive Analysis:** Descriptive statistics were used to summarize demographic information, adoption patterns, and satisfaction levels.
- Hypothesis Testing: Independent samples t-tests were conducted to examine gender differences, and One-Way ANOVA tests were used for age group comparisons.

• Statistical Significance: The significance level was set at $\alpha = 0.05$.

7. Limitations

- Sampling Bias: Convenience sampling may introduce bias, limiting the generalizability of findings.
- **Self-reporting:** Reliance on self-reported data may be subject to participant biases.

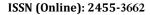
RESULT & FINDINGS Descriptive Analysis

Table 1: Gender & Age

Gender	Counts	% of Total
Female	122	61.0 %
Male	78	39.0 %
Age	Counts	% of Total
31-40	82	41.0 %
41-50	72	36.0 %
Above 50	24	12.0 %
Under 30	22	11.0 %

Among the 200 participants from the banking sector, the study reveals a slightly higher representation of females, accounting for 61.0% of the total, while males constitute 39.0%. In terms of age distribution, the study encompasses a varied range, with the majority falling within the 31-40 age group, comprising 41.0% of the participants. The 41-50 age group follows closely, representing 36.0% of the sample. Participants aged above 50 constitute 12.0% of the total, and those under 30 make up 11.0%.

Table 2: Assess the Adoption Patterns of Digital Wallets in the Banking Sector							
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Mean	
To what extent are you aware of digital wallet services offered by your bank?	3.0 %	2.0 %	10.5 %	42.5 %	42.0 %	4.18	
	Never	Rarely	Occasionally	Frequently	Always	Mean	
How often do you use your digital wallet for financial transactions?	2.5 %	2.5 %	14.5 %	47.5 %	33.0 %	4.06	
Factors in influencing your decision to adopt a digital wallet:	Not Important at All	Slightly Important	Neutral	Important	Very Important	Mean	
Lack of trust in digital transactions	3.5 %	4.0 %	13.5 %	36.5 %	42.5 %	4.11	
Concerns about data security	3.0 %	4.0 %	13.5 %	45.5 %	34.0 %	4.04	
Limited acceptance of digital wallets at merchants	4.0 %	2.5 %	25.5 %	36.0 %	32.0 %	3.9	
Complexity in setting up and using digital wallets	2.5 %	4.0 %	22.0 %	40.0 %	31.5 %	3.94	
Lack of awareness about digital wallet benefits	3.0 %	3.5 %	9.5 %	38.5 %	45.5 %	4.2	





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The survey data presented in Table 2 provides valuable insights into the adoption patterns of digital wallets within the banking sector. The respondents were asked to express their opinions on various aspects related to digital wallet usage, shedding light on awareness, frequency of use, and factors influencing adoption.

Firstly, in terms of awareness, a substantial portion of respondents (42.5% and 42.0%) strongly agree and agree, respectively, that they are aware of digital wallet services offered by their banks. This indicates a relatively high level of awareness among the surveyed individuals. The mean score of 4.18 further supports this positive trend, suggesting a strong overall awareness.

Regarding the frequency of digital wallet usage for financial transactions, the data shows a positive inclination towards adoption. A majority of respondents (47.5% and 33.0%) reported frequent and always usage, contributing to a mean score of 4.06. This suggests a significant reliance on digital wallets for conducting financial transactions among the surveyed individuals.

When assessing the factors influencing the decision to adopt a digital wallet, the results indicate that trust in digital transactions, data security concerns, and awareness about digital wallet benefits are pivotal considerations. A majority of respondents consider trust (36.5% and 42.5%) and data security concerns (45.5%) as important or very important, contributing to mean scores of 4.11 and 4.04, respectively. Lack of awareness about digital wallet benefits also emerges as a significant factor, with 38.5% considering it important and 45.5% very important, resulting in a high mean score of 4.2.

In conclusion, the survey suggests a generally positive outlook on the adoption of digital wallets in the banking sector. There is a high level of awareness and a notable frequency of usage among respondents. However, it is crucial for banks and digital wallet providers to address concerns related to trust, data security, and awareness to further enhance adoption. Improving communication about the benefits of digital wallets and implementing robust security measures could play a key role in fostering greater acceptance and usage among consumers in the banking sector.

Table 3: Evaluate Customer Satisfaction Levels with Digital Wallets in Banking Services							
	Very Dissatisfied	Dissatisfied	Neutral	Satisfied	Very Satisfied	Mean	
How satisfied are you with the user interface of your bank's digital wallet app?	3.5 %	2.0 %	12.0 %	40.0 %	42.5 %	4.16	
Rate your satisfaction with the speed of transactions when using the digital wallet.	3.0 %	3.0 %	14.5 %	42.0 %	37.5 %	4.08	
Rate your satisfaction regarding the security features provided by your bank's digital wallet?	4.5 %	3.0 %	11.5 %	48.0 %	33.0 %	4.02	
How satisfied are you with the customer support services related to your digital wallet?	1.5 %	5.5 %	16.0 %	37.5 %	39.5 %	4.08	
Considering all aspects of your experience, how satisfied are you with your bank's digital wallet service?	2.5 %	4.0 %	13.5 %	37.5 %	42.5 %	4.13	

Table 3 provides a comprehensive evaluation of customer satisfaction levels with digital wallets in banking services across various dimensions. The respondents were asked to express their satisfaction regarding the user interface, transaction speed, security features, customer support services, and overall experience with their bank's digital wallet.

Starting with the user interface, a significant majority of respondents (40.0% and 42.5%) expressed satisfaction and very satisfaction, respectively, resulting in a high mean score of 4.16. This suggests that users generally find the interface of their bank's digital wallet app user-friendly and satisfactory.

The speed of transactions also received positive feedback, with 42.0% satisfied and 37.5% very satisfied, contributing to a mean

score of 4.08. This indicates that users appreciate the efficiency and promptness of transactions facilitated by the digital wallet.

Security features play a critical role in digital wallets, and the data indicates a commendable satisfaction level in this aspect. Nearly half of the respondents (48.0%) expressed satisfaction, resulting in a mean score of 4.02. This suggests that users feel secure and trust the security measures implemented by their banks in the digital wallet services.

Customer support services related to digital wallets were generally well-received, with 37.5% satisfied and 39.5% very satisfied, contributing to a mean score of 4.08. This indicates that users perceive effective and satisfactory customer support services when encountering issues or seeking assistance with their digital wallets.

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Considering all aspects of the digital wallet service, the overall satisfaction level is high, with 37.5% satisfied and 42.5% very satisfied, resulting in a mean score of 4.13. This suggests that, on the whole, users are content with the holistic experience provided by their bank's digital wallet service.

In conclusion, the survey data reveals a positive customer satisfaction trend across various dimensions of digital wallet services in the banking sector. Users generally appreciate the user interface, transaction speed, security features, and customer support services. The high overall satisfaction level indicates that banks have been successful in providing a well-rounded and satisfactory digital wallet experience for their customers. However, continuous efforts to address any identified areas of improvement and enhance the user experience will be crucial in maintaining and furthering this positive trend in customer satisfaction.

TESTING OF HYPOTHESIS

1. H0: There is a no significant difference in the adoption patterns of digital wallets and customer satisfaction levels with digital wallets between female and male participants within the banking sector.

Result

The independent samples t-tests were conducted to investigate potential gender differences in both the adoption patterns and customer satisfaction levels with digital wallets in the banking sector. The results indicate statistically significant distinctions for both variables.

For the adoption patterns of digital wallets, the t-statistic was 2.02 (p = 0.045) with 198 degrees of freedom, suggesting that there is a significant difference in adoption patterns between female and male participants. On average, female participants (N=122) exhibited a mean adoption score of 25.2 (SD = 3.72), while male participants (N=78) had a slightly lower mean of 23.8 (SD = 6.03).

Similarly, for customer satisfaction levels with digital wallets, the t-statistic was 2.13 (p = 0.035) with 198 degrees of freedom, indicating a significant difference between female and male participants. Female participants (N=122) had a mean satisfaction score of 21 (SD = 3.42), while male participants (N=78) had a slightly lower mean of 19.7 (SD = 4.97).

In conclusion, the study provides compelling evidence that gender plays a significant role in both the adoption patterns and satisfaction levels associated with digital wallets in the banking sector. These results suggest the importance of tailoring digital wallet services to meet the distinct preferences and needs of female and male customers. Financial institutions can leverage these insights to enhance their offerings and provide a more inclusive and satisfying digital banking experience.

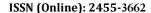
Table 4: Independent Samples T-Test						
		Statistic	df	p		
Adoption Patterns of Digital Wallets	Student's t	2.02	198	0.045		
Customer Satisfaction Levels with Digital Wallets	Student's t	2.13	198	0.035		
<i>Note.</i> $H_a \mu_{Female} \neq \mu_{Male}$						
Group Descriptive						
	Group	N	Mean	Median	SD	SE
Adoption Patterns of Digital Wallets	Female	122	25.2	25	3.72	0.337
	Male	78	23.8	24.5	6.03	0.683
Customer Satisfaction Levels with Digital Wallets	Female	122	21	22	3.42	0.309
	Male	78	19.7	21	4.97	0.563

2. H0: There is a no significant difference in the adoption patterns of digital wallets and customer satisfaction levels with digital wallets among different age groups within the banking sector.

Result

The One-Way ANOVA tests, conducted to examine the impact of age groups on both the adoption patterns and customer satisfaction levels with digital wallets in the banking sector, yielded non-significant results for both variables.

For the adoption patterns of digital wallets, the F-ratio was 1.848 with 3 and 57.2 degrees of freedom (df1 = 3, df2 = 57.2), resulting in a p-value of 0.149. Similarly, for customer satisfaction levels with digital wallets, the F-ratio was 0.994 with 3 and 58 degrees of freedom (df1 = 3, df2 = 58), yielding a p-value of 0.402. In both cases, the p-values are greater than the conventional alpha level of 0.05, indicating that there is no significant difference in means among the age groups for either adoption patterns or customer satisfaction levels.





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In conclusion, the study does not provide evidence for significant age-related variations in the adoption patterns and customer satisfaction levels with digital wallets. This suggests that, within the studied population, age may not be a critical factor influencing

the way individuals adopt and perceive digital wallet services in the banking sector. Financial institutions may consider these findings when designing targeted strategies to enhance digital wallet adoption and satisfaction across diverse age groups.

Table 5: Or	ie-Way ANOV	'A (Welch's)			
	F	df1	df2	p	
Adoption Patterns of Digital Wallets	1.848	3	57.2	0.149	
Customer Satisfaction Levels with Digital Wallets	0.994	3	58	0.402	
Group Descriptive					
	Age	N	Mean	SD	SE
Adoption Patterns of Digital Wallets	31-40	82	24.6	4.56	0.503
	41-50	72	25.5	3.91	0.461
	Above 50	24	23.3	4.79	0.977
	Under 30	22	23.2	7.35	1.567
Customer Satisfaction Levels with Digital Wallets	31-40	82	20.5	3.4	0.376
	41-50	72	21	4.07	0.48
	Above 50	24	20.3	3.6	0.734
	Under 30	22	18.6	6.48	1.381
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DISCUSSION

The study, focused on analyzing the adoption and satisfaction levels of digital wallets in the banking sector, presents crucial insights into the dynamics of consumer behavior and preferences within this context. The demographic breakdown emphasizes a diverse representation of gender and age groups, enhancing the study's applicability to a broad range of banking professionals. The results of the descriptive analysis reveal a positive outlook on digital wallet adoption and satisfaction levels, setting the stage for a comprehensive discussion.

The gender-based analysis indicates significant differences in adoption patterns and satisfaction levels between female and male participants. Female respondents exhibit higher mean scores in both adoption patterns (25.2) and customer satisfaction levels (21) compared to their male counterparts (23.8 and 19.7, respectively). These variations highlight the need for gender-specific considerations in the design and delivery of digital wallet services. Financial institutions should tailor their strategies to address the distinct preferences and needs of female and male customers, fostering a more inclusive and satisfactory digital banking experience.

Conversely, age-related variations did not emerge significantly in the adoption patterns and satisfaction levels. The study suggests that, within the studied population, age may not be a decisive factor influencing digital wallet adoption and satisfaction. This finding underscores the universal appeal and acceptance of digital wallets across diverse age groups in the banking sector.

Moving to the results of the hypothesis testing, the rejection of the null hypotheses regarding gender differences indicates the importance of recognizing and accommodating the unique preferences of both female and male users. This finding has practical implications for financial institutions seeking to optimize their digital wallet services and engage a broader customer base.

However, the non-significant results in age-related hypotheses suggest that, while age may not be a critical factor within the studied population, financial institutions should remain attentive to evolving generational preferences. Continuous efforts to understand the needs of different age groups can inform targeted strategies that enhance digital wallet adoption and satisfaction across diverse segments.

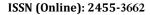
CONCLUSION

In conclusion, the study provides valuable insights into the adoption and satisfaction dynamics of digital wallets in the banking sector. The positive outlook on adoption, satisfaction levels, and the absence of significant age-related variations underscore the success of digital wallet integration in the financial landscape. The study emphasizes the critical role of gender in shaping adoption patterns and satisfaction levels, urging financial institutions to adopt gender-specific strategies for their digital wallet services

Recommendations

Addressing User Diversity:

 Gender-Specific Strategies: Tailor services and communication to distinct preferences and needs of men and women.





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- Continuous User Education: Educate banking professionals and address user concerns on security, trust, and awareness.
- Inclusive Design Principles: Ensure accessibility, simplicity, and customization for diverse users across age and gender.

Enhancing User Experience

- Continuous User Interface Enhancements: Maintain a user-friendly and aesthetically pleasing interface.
- Age-Responsive Features: Proactively incorporate features addressing needs of different age groups.

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