Sharia Economic and Management Business Journal (SEMBJ)

| Volume 7, Issue 2, 2026 | Page 251-260 |
https://doi.org/10.62159/sembj.v7i2.2132
ISSN-Online: 2774-2679

https://siducat.org/index.php/sembj

Digital Payment Integration and Financial Control in Large Educational Institutions: A Qualitative Case Study of an Islamic Boarding School Ecosystem

M.Sholihun[1], Mochamad Sirojuddin[2],Sri Mulyani[3], Mohammad Yusuf Wijaya[4], Ismailova Zukhra Karabaevna[5]

[134]Sunan Kalijogo Islamic Institute, Malang, Indonesia.
[2]Malang State University, Indonesia.
[5]National Research University, Uzbekistan.

msholihun@iaiskjmalang.ac.id *✉

ARTICLE INFO

Keywords:
Digital payment systems; Financial management; Educational institutions; Financial control; Digital transformation; Customer service support;

ABSTRACT

Background: The financial management of large educational institutions often faces challenges related to payment accuracy, data reconciliation, and administrative efficiency, particularly when transactions are conducted manually or through semi-digital systems. This study examines the transformation of financial management through the implementation of an integrated digital payment system in a large Islamic boarding school ecosystem serving approximately 11,000 students across multiple educational units.
Method: Using a qualitative case study approach, data were collected through in-depth interviews with financial administrators, information technology staff, and customer service personnel, as well as through document analysis and process observation. The findings reveal that the adoption of an integrated digital payment application significantly improves transaction accuracy, financial recording reliability, and billing transparency by eliminating manual confirmation and reducing human error. Moreover, the establishment of dedicated customer service teams at each educational unit plays a critical role in facilitating digital payment adoption, particularly in addressing limitations related to banking access and digital literacy among students' guardians.
Results: This study contributes to the financial management and digital finance literature by highlighting the importance of organizational support mechanisms in ensuring the effectiveness of digital payment systems within large, non-profit educational institutions. The findings offer practical insights for policymakers and educational managers seeking to enhance financial control and accountability through digital transformation.
Conclusion: The study reveals that technological integration alone is insufficient to ensure effective financial transformation. Organizational support mechanisms particularly dedicated customer service units played a critical role in facilitating system adoption and sustaining daily financial operations.

Received: 3/4/2026 **Revised:** 5/9/2026 **Accepted:** 5/14/2026

How to cite this article:
Sholihun, M., Sirojuddin, M., Mulyani, S., Wijaya, M.Y., Karabaevna, I.Z. (2026). Digital Payment Integration and Financial Control in Large Educational Institutions: A Qualitative Case Study of an Islamic Boarding School Ecosystem. Sharia Economic and Management Business Journal (SEMBJ), 7(2), 251-260. https://doi.org/10.62159/sembj.v7i2.2132

INTRODUCTION

Financial management in educational institutions encompasses planning, organizing, directing, and controlling financial resources to support academic and operational objectives (Brigham & Houston, 2019). In non-profit and educational organizations, effective financial management is particularly critical due to limited resources, high accountability demands, and the need to maintain stakeholder trust (Anthony & Govindarajan, 2014). Financial control mechanisms such as accurate transaction recording, timely reconciliation, and transparent billing serve as the backbone of sound financial governance.

Prior studies indicate that educational institutions often face persistent challenges in financial control due to fragmented payment systems, manual data entry, and reliance on human operators for transaction verification (Abdullah & Said, 2020). These challenges are amplified in large institutions with multiple academic units and diverse payment categories, increasing the risk of recording errors, delayed reporting, and misaligned financial information (Bush, 2018). Weak financial control not only affects operational efficiency but may also undermine institutional credibility and stakeholder confidence.

In response, scholars have emphasized the need for integrated financial management systems that enable real-time monitoring, automated reporting, and standardized financial procedures across organizational units (Merchant & Van der Stede, 2017). However, the adoption and effectiveness of such systems in educational and non-profit contexts remain uneven, particularly in institutions with limited technological infrastructure and heterogeneous user capabilities.

Digital Payment Systems and Financial Management Efficiency

Digital payment systems are widely recognized as a key component of financial digitalization, enabling cashless transactions, automated data capture, and improved financial traceability (Ozili, 2018). From a financial management perspective, integrated digital payment systems enhance efficiency by reducing transaction processing time, minimizing human error, and improving cash flow visibility (Dahlberg et al., 2015). These systems also support stronger internal control by providing auditable transaction records and facilitating reconciliation processes (Gomber et al., 2018).

Empirical studies across various sectors demonstrate that digital payment adoption leads to higher financial accuracy, lower administrative costs, and improved billing transparency (Kim et al., 2010; Hasan et al., 2020). In educational settings, digital payments have been shown to streamline tuition collection, reduce late payments, and enhance financial reporting quality (Alalwan et al., 2017). Nevertheless, much of the existing literature focuses on technological infrastructure or user acceptance, rather than on the broader implications for financial control and management processes.

Moreover, digital payment implementation in educational institutions often encounters structural constraints, including limited integration with banking systems, uneven access to digital devices, and varying levels of financial literacy among stakeholders (Donner & Tellez, 2008). These constraints suggest that technological solutions alone are insufficient to guarantee improved financial management outcomes, particularly in large and socially diverse educational environments.

Technology Adoption and Organizational Support Mechanisms

Technology adoption theories, such as the Technology Acceptance Model (TAM) and the Unified Theory of Acceptance and Use of Technology (UTAUT), emphasize perceived usefulness, ease of use, and facilitating conditions as key determinants of system adoption (Davis, 1989; Venkatesh et al., 2012). While these models provide valuable insights into individual user behavior, they often understate the role of organizational structures and support mechanisms in sustaining technology use over time.

Organizational support including training, communication, and user assistance has been identified as a critical factor in successful digital transformation initiatives (Kotter, 1996; Venkatesh et al., 2016). In financial management contexts, dedicated support units can function as intermediaries between technological systems and users, helping to resolve operational issues, improve system understanding, and foster trust in digital processes (Zhu et al., 2019).

In educational institutions, customer service or financial service units play an increasingly important role in facilitating payment system adoption, particularly when stakeholders face barriers such as limited digital literacy or restricted access to banking services (Al-Fraihat et al., 2020). Despite this, the financial management literature has paid limited attention to the contribution of such support units in enhancing

the effectiveness of digital payment systems. Most studies treat organizational support as a contextual variable rather than as an active component of financial governance.

Although prior research acknowledges the efficiency benefits of digital payment systems, there is a notable gap in understanding how these systems transform financial control practices within large, non-profit educational institutions. Specifically, existing studies rarely examine the interaction between digital payment integration and organizational support mechanisms in shaping financial management outcomes. The majority of research remains focused on adoption intention or technological readiness, leaving managerial processes and control implications underexplored.

Furthermore, empirical evidence from boarding school based educational ecosystems characterized by high transaction volumes, multiple payment types, and diverse stakeholder profiles is scarce in the international literature. This gap limits the generalizability of existing findings and overlooks a context where financial management challenges are particularly pronounced.

To address these gaps, the present study positions digital payment integration as a managerial tool for strengthening financial control, while conceptualizing customer service units as an organizational mechanism that enables effective system adoption. By adopting a qualitative case study approach, this research extends the financial management literature beyond technology-centric explanations and offers process-based insights into digital financial transformation in large educational institutions.

Conceptual Framework

This study is grounded in the financial management and digital transformation literature, which views digital payment systems not merely as technological tools, but as managerial instruments that shape financial control, efficiency, and accountability. The conceptual framework developed in this research integrates three interrelated components: digital payment integration, financial management outcomes, and organizational support mechanisms.

Digital Payment Integration as a Financial Management Tool

Digital payment integration refers to the implementation of a unified system that consolidates multiple payment types such as registration fees, tuition payments, accommodation costs, learning materials, and examination fees into a single, automated platform. From a financial management perspective, such integration enables real-time transaction recording, eliminates manual confirmation processes, and standardizes financial data across organizational units.

Drawing on management accounting and control theory, integrated payment systems are expected to strengthen internal financial control by reducing information asymmetry, minimizing human error, and enhancing the reliability of financial records (Merchant & Van der Stede, 2017). In large educational institutions with high transaction volumes, digital integration serves as a mechanism for improving coordination and ensuring consistency in financial procedures across multiple sub-units.

Financial Management Outcomes: Control, Accuracy, and Transparency

The primary financial management outcomes examined in this study include financial control, transaction accuracy, and billing transparency. Financial control is reflected in the institution's ability to monitor transactions, reconcile payments efficiently, and prevent discrepancies in financial reporting. Transaction accuracy refers to the correctness of payment records and the reduction of errors arising from manual data entry or delayed confirmation. Billing transparency involves the clarity and traceability of payment obligations and histories for both administrators and stakeholders.

Prior literature suggests that automated digital payment systems enhance these outcomes by providing auditable transaction trails and enabling timely reconciliation (Gomber et al., 2018). However, the realization of these benefits depends not only on technological capability but also on the organizational context in which the system is implemented.

Organizational Support as an Enabling Mechanism

A central assumption of this framework is that organizational support mechanisms play a critical enabling role in translating digital payment integration into improved financial management outcomes. In this study, organizational support is operationalized through the presence of dedicated customer

service units that assist users, provide payment-related education, and mediate between the digital system and stakeholders.

Consistent with change management and technology adoption theories, facilitating conditions such as user assistance, communication, and problem resolution are essential for sustaining system use, particularly in contexts characterized by uneven digital literacy and limited access to banking services (Kotter, 1996; Venkatesh et al., 2016). Customer service units function as boundary-spanning actors that reduce resistance to change, build trust in digital processes, and ensure continuity in financial operations.

Rather than treating organizational support as a peripheral factor, this study conceptualizes it as an integral component of digital financial governance. The effectiveness of digital payment systems in improving financial control is therefore understood as contingent upon the strength and responsiveness of these support structures.

Framework Summary and Research Focus

Based on the above reasoning, the conceptual framework of this study proposes that digital payment integration positively influences financial management outcomes, while organizational support mechanisms act as a critical facilitator that enhances and stabilizes this relationship. The framework emphasizes process-based understanding, focusing on how financial practices evolve through the interaction of technology, management systems, and human support structures.

Accordingly, this study addresses the following overarching research focus:

How does integrated digital payment implementation reshape financial control, accuracy, and transparency in large educational institutions, and what role do organizational support mechanisms play in enabling this transformation?

By adopting this conceptual framing, the study advances the financial management literature by moving beyond technology-centric explanations and offering a holistic view of digital financial transformation in complex, non-profit educational environments.

METHOD

This study adopts a qualitative case study design to examine the implementation of an integrated digital payment system and its implications for financial management in a large educational institution. A qualitative approach is particularly suitable for this research because it enables an in-depth understanding of complex managerial processes, organizational dynamics, and contextual factors that cannot be fully captured through quantitative methods (Yin, 2018).

The case study strategy allows the researcher to explore how digital payment integration reshapes financial control, transaction accuracy, and billing transparency within a real-life organizational setting. This approach is consistent with prior financial management studies that emphasize process-oriented analysis in non-profit and educational contexts (Eisenhardt, 1989).

The case selected for this study is a large Islamic boarding school–based educational ecosystem in Indonesia, comprising multiple educational institutions operating under a unified management structure. The ecosystem serves approximately 11,000 students across various levels of education, including early childhood, primary, secondary, vocational, and higher education units.

This case was purposively selected due to three key characteristics. First, the institution manages a high volume of diverse financial transactions, including registration fees, tuition payments, accommodation costs, learning materials, and examination fees. Second, the institution recently transitioned from a manual and semi-digital payment system to a fully integrated digital payment application. Third, the organization established dedicated customer service teams at each educational unit to support the adoption and operation of the digital payment system. These characteristics make the case particularly suitable for investigating the interaction between digital payment integration and organizational support mechanisms in financial management.

Data were collected using multiple qualitative sources to enhance the depth and credibility of the findings through triangulation (Patton, 2015). The primary data collection methods included:

1. In-depth interviews with key informants, including financial administrators, information technology personnel, and customer service staff involved in managing and supporting the digital payment system. The interviews focused on payment processes, financial control practices, system implementation challenges, and perceived changes following digital integration.
2. Document analysis, including financial reports, payment procedures, standard operating guidelines, and internal policy documents related to payment management before and after the implementation of the digital payment system.
3. Process observation of payment workflows and customer service interactions, aimed at understanding how digital payments are operationalized in daily financial management practices.

Data collection was conducted over an extended period to capture variations in financial activities, particularly during peak payment cycles such as student registration and examination periods.

The data analysis followed a thematic analysis approach, which is appropriate for identifying patterns and meanings across qualitative data sources (Braun & Clarke, 2006). Interview transcripts, documents, and observational notes were coded iteratively to capture themes related to digital payment integration, financial control, transaction accuracy, billing transparency, and organizational support.

The analysis proceeded through three stages. First, open coding was conducted to identify recurring concepts and issues emerging from the data. Second, axial coding was used to establish relationships between digital payment practices and financial management outcomes. Third, selective coding was applied to integrate the findings into a coherent narrative aligned with the conceptual framework of the study.

To strengthen analytical rigor, pattern matching was employed by comparing financial management practices before and after digital payment implementation, allowing the study to trace process-level changes attributable to the integrated payment system (Yin, 2018).

To ensure the trustworthiness of the findings, this study applied established qualitative research criteria, including credibility, transferability, dependability, and confirmability (Lincoln & Guba, 1985). Credibility was enhanced through data triangulation across interviews, documents, and observations. Member checking was conducted by sharing preliminary interpretations with selected informants to validate the accuracy of the findings.

Transferability was supported by providing a rich description of the research context and institutional characteristics, enabling readers to assess the applicability of the findings to similar educational settings. Dependability and confirmability were addressed through maintaining an audit trail that documented data collection procedures, coding decisions, and analytical steps.

Ethical considerations were carefully addressed throughout the research process. Participation in interviews was voluntary, and informed consent was obtained from all participants. To protect confidentiality, institutional and individual identities were anonymized, and sensitive financial information was handled with strict confidentiality. The study adhered to ethical research standards applicable to qualitative research in organizational and educational settings.

RESULTS AND DISCUSSION

Results

The findings are organized into four main themes that reflect the transformation of financial management practices following the implementation of the integrated digital payment system. These themes illustrate changes in payment processes, financial control mechanisms, data accuracy, and the role of organizational support in sustaining the system.

Prior to the implementation of the integrated digital payment system, financial transactions were conducted through manual cash payments at designated counters or through bank transfers that required manual confirmation. This system relied heavily on human intervention for payment verification, recording, and reconciliation.

Interview data indicate that this approach frequently resulted in delayed recording, incomplete documentation, and discrepancies between payment receipts and financial records. Financial

administrators reported difficulties in tracking payments across different educational units, particularly during peak periods such as student registration and examination cycles. The absence of real-time transaction updates often led to billing errors and duplicate payment confirmations.

These findings suggest that manual and semi-digital payment systems limited the institution's ability to exercise effective financial control, increasing operational risks and administrative workload. Financial management practices during this period were characterized by reactive problem-solving rather than systematic control.

The introduction of an integrated digital payment application marked a significant shift in financial management practices. All payment categories registration fees, tuition, accommodation, meals, learning materials, and examination fees were consolidated into a single digital platform that automatically recorded transactions upon completion.

Participants consistently reported that this integration enhanced financial control by enabling real-time monitoring of incoming payments and immediate reconciliation within the system. Financial administrators emphasized that automated recording reduced dependence on manual data entry and minimized inconsistencies across financial records.

As a result, the institution gained greater visibility over cash flows and outstanding payments across its multiple educational units. The findings indicate that digital integration transformed financial control from a fragmented, unit-based process into a centralized and standardized management function.

Another key finding relates to improvements in transaction accuracy and billing transparency following digital payment adoption. Automated transaction recording eliminated the need for manual payment confirmation, significantly reducing human error in financial records.

Administrators and customer service staff noted that students and guardians could easily access payment histories and outstanding obligations through the application, enhancing transparency and reducing disputes related to billing. This visibility enabled stakeholders to verify payment status independently, decreasing the frequency of payment-related complaints.

The findings demonstrate that digital payment integration strengthened trust in the institution's financial management system by ensuring that payment information was accurate, traceable, and consistently updated.

Despite the technological improvements, the findings reveal that organizational support mechanisms played a crucial role in ensuring the effectiveness of the digital payment system. Not all students' guardians possessed smartphones, bank accounts, or sufficient digital literacy to independently use the application.

To address these challenges, the institution established dedicated customer service teams within each educational unit. These teams provided payment assistance, user education, and direct support for stakeholders experiencing difficulties with digital transactions. Customer service staff acted as intermediaries, facilitating payments and ensuring that transactions were accurately recorded in the system.

Interview evidence suggests that the presence of customer service units significantly reduced resistance to digital payment adoption and helped bridge gaps in access and capability. Rather than undermining digitalization, these support mechanisms complemented the system by ensuring inclusivity and continuity in financial operations.

Overall, the findings indicate that the implementation of an integrated digital payment system substantially improved financial control, transaction accuracy, and billing transparency within the institution. However, these improvements were not solely the result of technological integration. Organizational support, particularly through customer service teams, emerged as a critical factor in translating digital capability into effective financial management outcomes.

The findings highlight that digital financial transformation in large educational institutions is a socio-technical process, requiring alignment between technology, managerial practices, and human support structures.

Discussion

This study provides empirical evidence that the integration of a digital payment system can significantly enhance financial management practices in large educational institutions. The findings extend prior research on digital payments by demonstrating that financial control improvements are not solely driven by technological automation, but also by the organizational mechanisms that support system adoption and use.

Digital Payment Integration and Financial Control

Consistent with management accounting theory, the findings show that integrated digital payment systems strengthen financial control by enabling real-time monitoring, standardized procedures, and automated transaction recording (Merchant & Van der Stede, 2017). The shift from fragmented manual payments to a centralized digital platform reduced reconciliation delays and minimized discrepancies across financial records.

These results align with previous studies that highlight the efficiency and accuracy benefits of digital payments (Dahlberg et al., 2015; Gomber et al., 2018). However, this study advances the literature by situating these benefits within a complex educational ecosystem characterized by multiple organizational units and high transaction volumes. In such contexts, digital payment integration functions as a managerial control mechanism rather than merely a transactional tool.

Transaction Accuracy, Transparency, and Financial Governance

The findings indicate that automated payment recording and transparent billing information improved transaction accuracy and enhanced stakeholder trust. This supports prior research suggesting that digital financial systems improve accountability and traceability in organizational finance (Ozili, 2018). By providing accessible payment histories and real-time status updates, the system reduced information asymmetry between administrators and stakeholders, a key concern in financial governance (Anthony & Govindarajan, 2014).

Importantly, the results suggest that transparency is not only a technological outcome but also a governance outcome. Enhanced transparency reduced disputes and administrative workload, allowing financial staff to shift from corrective tasks to monitoring and planning activities. This finding reinforces the argument that digitalization can elevate the strategic role of financial management in educational institutions.

Organizational Support and the Socio-Technical Nature of Digital Transformation

One of the most significant contributions of this study lies in its examination of organizational support mechanisms. While technology adoption models emphasize facilitating conditions (Venkatesh et al., 2012), empirical studies often treat such conditions as background variables. This study demonstrates that dedicated customer service units actively shape the effectiveness of digital payment systems by bridging gaps in digital literacy, banking access, and user readiness.

The presence of customer service teams reflects principles of change management, which emphasize the importance of human-centered support during organizational transformation (Kotter, 1996). Rather than undermining digitalization, these support structures complemented the digital system by ensuring inclusivity and continuity. This finding challenges technology-centric perspectives that assume uniform user capability and highlights the need to integrate human support into digital financial strategies.

Theoretical Contributions

This study contributes to the financial management literature in three ways. First, it extends research on digital payments by framing integrated payment systems as tools of financial control and governance within non-profit educational institutions. Second, it highlights the importance of organizational support mechanisms as active enablers of digital financial transformation, rather than as peripheral contextual factors. Third, it provides empirical insights from a large boarding school–based educational ecosystem, a context that remains underrepresented in international financial management research.

By adopting a qualitative case study approach, the study offers process-level explanations that complement existing quantitative research on digital payment adoption. This contributes to a more nuanced understanding of how digital financial systems operate in practice within complex organizational environments.

Practical Implications

From a managerial perspective, the findings suggest that educational institutions seeking to implement digital payment systems should prioritize system integration and automation to strengthen financial control. However, technological investment alone is insufficient. Institutions must also invest in organizational support structures such as customer service units and user education programs—to ensure effective adoption and sustained use.

For policymakers, the study highlights the need to consider inclusivity and access issues in digital finance initiatives within the education sector. Supporting intermediary roles and hybrid payment assistance models may be critical in contexts where digital and banking infrastructure remains uneven.

CONCLUSION

This study examines the implementation of an integrated digital payment system within a large educational institution ecosystem and its implications for financial management practices. The findings demonstrate that digital payment integration substantially improves financial control, transaction accuracy, and billing transparency by eliminating manual confirmation processes and reducing human error. The transition from fragmented manual systems to a centralized digital platform enabled more reliable financial records, real-time monitoring, and standardized payment procedures across organizational units.

Importantly, the study reveals that technological integration alone is insufficient to ensure effective financial transformation. Organizational support mechanisms particularly dedicated customer service units played a critical role in facilitating system adoption and sustaining daily financial operations. These units helped address limitations related to digital literacy and access to banking services, ensuring inclusivity while maintaining the integrity of the digital payment system. As such, digital financial transformation in educational institutions should be understood as a socio-technical process involving both technological systems and human support structures.

This study contributes to the financial management literature by extending the understanding of digital payment systems beyond efficiency and adoption perspectives. First, it positions integrated digital payments as managerial tools that strengthen financial control and governance in non-profit educational institutions. Second, it highlights organizational support mechanisms as active enablers of digital financial transformation, rather than as passive contextual factors. Third, by focusing on a large boarding school–based educational ecosystem, the study enriches the literature with empirical insights from a context that has received limited attention in international research.

By adopting a qualitative case study approach, this research complements existing quantitative studies and provides process-level explanations of how digital financial systems operate in complex organizational environments.

For educational managers, the findings suggest that successful digital payment implementation requires both technological and organizational readiness. Institutions should prioritize system integration and automation to enhance financial control and reduce administrative errors. At the same time, investment in organizational support such as customer service units, user education, and payment assistance is essential to ensure system usability and stakeholder acceptance.

Financial managers should view customer service functions not merely as operational support, but as integral components of digital financial governance. Embedding support units within financial management structures can help sustain system effectiveness and mitigate risks associated with uneven digital access.

From a policy perspective, the study underscores the importance of inclusive digital finance strategies in the education sector. Policymakers should consider hybrid models that combine digital payment systems with intermediary support mechanisms to accommodate diverse user capabilities.

Supporting collaboration between educational institutions, financial service providers, and technology platforms may further enhance the scalability and sustainability of digital payment initiatives.

Despite its contributions, this study has several limitations. As a single-case qualitative study, the findings may not be directly generalizable to all educational contexts. Future research could employ comparative case studies or mixed-method approaches to examine digital payment implementation across different types of educational institutions. Further studies may also explore the long-term financial performance impacts of digital payment systems or investigate stakeholder perceptions of trust and accountability in digitally managed educational finance.

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