

SPP PAYMENT INFORMATION SYSTEM USING MOBILE-BASED PAYMENT GATEWAY

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ABSTRACT

The process of paying tuition fees at the Ikramul Qur'an Islamic Boarding School is still done manually through WhatsApp confirmation and worksheet recording, which has the potential to cause recording errors, administrative delays, and a lack of transparency in payment information. This study aims to design and develop a mobile-based SPP payment information system integrated with a payment gateway service and implement a Single Sign-On (SSO) authentication mechanism using Google accounts. The system was developed using the Waterfall method, which includes the stages of analysis, design, implementation, testing, and maintenance. The application was built using the Flutter framework, with Midtrans payment gateway integration to support non-cash payments via bank transfers and digital wallets. Testing was conducted using the black box testing method on the SSO login feature and payment process. The results of the study show that the system makes it easier for guardians to make payments, provides centralized billing and transaction history information, and improves the efficiency and transparency of tuition fee payment administration in Islamic boarding schools.

Keywords: *Information System, Tuition Payment, Payment Gateway, Single Sign-On (SSO), and Mobile Application.*