Payment Integration Requirements for Mobile SRS

1. Overview

This document describes the system requirements for integrating third-party payment systems within the Mobile SRS application.

2. Functional Requirements

1. Users shall be able to initiate payments via supported payment providers.
2. The system shall support the following payment methods:
   - Credit/Debit Card
   - Mobile Wallets (e.g., Apple Pay, Google Pay)
   - Bank Transfers (where available)
3. Transaction history shall be accessible to users.
4. The system shall process and confirm transaction statuses (success, pending, failed).
5. A notification shall be shown to users for successful or failed transactions.

3. Non-Functional Requirements

1. The integration shall comply with industry security standards (PCI DSS).
2. Payment flows shall be completed within 5 seconds (excluding external delays).
3. All payment data transmissions must be encrypted using HTTPS.

4. API Integration

1. RESTful APIs shall be used for server communication.
2. The system shall securely handle API keys and credentials.
3. Callback endpoints shall be implemented to receive payment confirmations.

5. Validation & Error Handling

1. All payment input fields shall be validated for correct format.
2. Error messages shall be user-friendly and not expose sensitive data.
3. Failed transactions shall be logged for post-mortem and reporting.

6. User Interface

1. Payment screens must be responsive and intuitive on all devices.
2. Progress indicators shall be shown during payment processing.

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