SkyConnect
Impacting Life

INTERNAL PROJECT

Software Requirements Specification

# Sky Pesa

Version: 1.0.1

Date: 2025-08-20

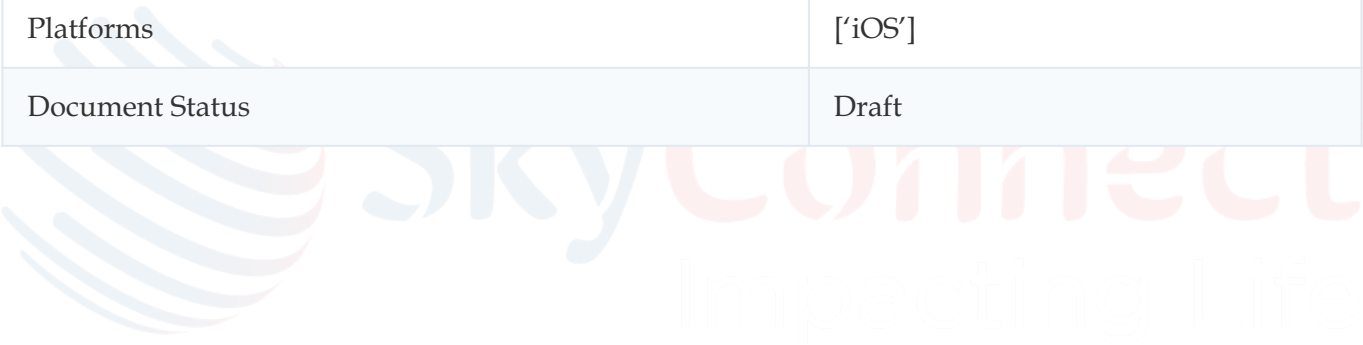Status: Draft

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# Table of Contents

# 1 Document Information

| Field | Value |
|---|---|
| Project Name | Sky Pesa |
| Version | 1.0.1 |
| Date | 2025-08-20 |
| Project Manager | TBD |
| Tech Lead | TBD |
| Qa Lead | Tester |
| Platforms | ['iOS'] |
| Document Status | Draft |

# 2 Project Overview

## 2.1 What Are We Building

### 2.1.1 System Function

A mobile financial application for iOS that allows users to manage their accounts, transfer money, and handle loans (requests, repayments, payments).

### 2.1.2 Users

- Customer / User
- Employer / Employee (inferred from features)

### 2.1.3 Problem Solved

The application provides a high level of functionality (96% pass rate) but is hindered by a few key defects. These include a critical failure in viewing transaction history, a major UI bug in the 'Pay Loan' feature that makes it unusable in light mode, and missing legal policies (Privacy/Terms of Use), which impacts user trust and usability.

### 2.1.4 Key Success Metric

Achieve a 100% test pass rate by resolving all identified failed test cases and bugs.

## 2.2 Scope

### 2.2.1 In Scope

- User Authentication (Registration, Login, Logout)
- Account Management (View Balance, Update Profile)
- Money Transfer
- Transaction History Viewing
- Loan Management (Request, Repayments, Payments)
- Employer and Employee specific features
- UI Features (Language Change, Dark Mode)

- Notifications

## 2.2.2 Out Of Scope

- Implementing functional Privacy Policy & Terms of Use (currently missing).

# 3 User Requirements

## 3.1 Authentication User Management

| Feature Code | I Want To | So That I Can | Priority | Notes |
|---|---|---|---|---|
| FT-AUTH-ALL | Register, log in, and log out of the app | Securely manage my account access. | Must | All authentication test cases passed. |

## 3.2 Core Business Features

| Feature Code | I Want To | So That I Can | Priority | Notes |
|---|---|---|---|---|
| FT-HISTORY-VIEW | View my full transaction history | Track all my past sent and received transactions with details. | Must | CRITICAL FAILURE: The actual result of the test case (HIST-TC-001) was 'Fail', indicating this core feature is not working. |
| FT-LOAN-PAY | View and interact with the 'Pay Loan' screen correctly in both light and dark modes | Make a loan payment without the screen disappearing. | Must | Major Failure: The 'Pay Loan' screen disappears after clicking its button, making it unusable (Bug ID 004). The report also notes it cannot be displayed well in light mode. |
| | | | Must | |

| Feature Code | I Want To | So That I Can | Priority | Notes |
|---|---|---|---|---|
| FT-MONEY-TRANSFER | Send money to other users securely | Perform financial transactions. | | All money transfer test cases passed. |

## 3.3 Additional Features

| Feature Code | I Want To | So That I Can | Priority | Notes |
|---|---|---|---|---|
| FT-LEGAL-VIEW | Access the Privacy Policy and Terms of Use | Understand the application's policies and my rights. | Should | Major Failure: These features are not present in the app and are not functioning (Bug ID 002). |
| FT-UI-LANGUAGE | Switch the app to Swahili | Use the app with all text correctly interpreted in my preferred language. | Should | Minor Failure: Not all words are interpreted correctly in the Swahili language feature (Bug ID 001). |
| FT-APP-NOTIFY | Interact with the notification bar | Respond to alerts and updates. | Should | Minor Failure: The notification bar is not responding (Bug ID 003). |
| FT-UI-DARKMODE | Use dark mode across the entire application | Have a consistent and comfortable viewing experience. | Should | Minor Failure: Some parts of the employee, loan, and repayment features do not respond to dark mode (Bug ID 005). The profile interface also has light mode elements when |

| Feature Code | I Want To | So That I Can | Priority | Notes |
|---|---|---|---|---|
| | | | | in dark mode (Bug ID 006). |

# 4 Detailed Feature Requirements

## 4.1 Ft History View

### 4.1.1 Priority

Must Have

### 4.1.2 User Story

As a user, I want to navigate to the 'Transaction History' or 'Statements' section to see a complete list of all my past transactions, including details like date, amount, and recipient/sender.

### 4.1.3 Preconditions

The user is logged in and has completed at least one transaction.

### 4.1.4 Postconditions

A list of all past transactions (sent and received) is displayed with all relevant details for each transaction.

### 4.1.5 Test Cases

| Id | Description | Weight |
|---|---|---|
| HIST-TC-001 | Verify that a user can view their past transaction history. | High |

## 4.2 Ft Loan Pay

### 4.2.1 Priority

Must Have

## 4.2.2 User Story

As a user, I want to tap the button on the 'Pay Loan' screen and have it function correctly without disappearing, regardless of whether the app is in light or dark mode.

## 4.2.3 Preconditions

User is on the 'Pay Loan' screen.

## 4.2.4 Postconditions

The payment action is initiated, and the UI remains stable and visible.

## 4.2.5 Test Cases

| Id | Description | Weight |
|---|---|---|
| Bug-004 | Verify the 'Pay Loan' screen and its buttons are functional and persistently visible after interaction. | High |

# 5 Technical Requirements

## 5.1 Performance Standards

| Requirement | Target | How To Test |
|---|---|---|
| UI Theme Consistency | All UI elements must fully support both light and dark modes without visual defects. | Manually test all screens, including profile and loan features, in both themes. Addresses Bugs 005 and 006. |

## 5.2 Platform Requirements

| Platform | Minimum Version | Target Version | Notes |
|---|---|---|---|
| iOS | iOS 14 | iOS 17 | Testing was performed on iPhone 13 plain and iPhone 11 Pro max. |

## 5.3 Security Privacy

| Requirement | Must Have | Implementation |
|---|---|---|
| User data encryption | True | AES-256 at rest; TLS 1.2+ in transit |
| Legal Policy Implementation | True | A functional and accessible Privacy Policy and Terms of Use must be integrated into the application (addresses Bug ID 002). |
| Enhanced Security | False | Consider implementing password requirements for sensitive actions for enhanced |

| Requirement | Must Have | Implementation |
|---|---|---|
| | | security (as per 'Recommendation'). |

# 6 External Dependencies

## 6.1 Third Party Services

| Service | What It Does | Criticality | Backup Plan |
| --- | --- | --- | --- |
| Push Notification Service (APNS) | Delivers notifications to the user's device. | Medium | Ensure robust implementation and error handling. Fix the non-responding notification bar (Bug ID 003). |

# 7 Release Planning

## 7.1 Development Phases

| Phase | Features Included | Timeline | Success Criteria |
|---|---|---|---|
| Phase 1 (Critical Fixes) | ['FT-HISTORY-VIEW (fix)', 'FT-LOAN-PAY (fix)', 'FT-LEGAL-VIEW (implement)'] | 2 weeks | All 'Must' priority features are fully functional. The failed test case (HIST-TC-001) passes. Overall test pass rate is 100%. |
| Phase 2 (UI/UX Polish) | ['FT-UI-LANGUAGE (fix)', 'FT-APP-NOTIFY (fix)', 'FT-UI-DARKMODE (fix)'] | 2 weeks | All identified bugs are resolved. UI is consistent across all features and themes. |

## 7.2 Release Checklist

- All Must-Haves complete

- No critical bugs remaining

- Transaction History (HIST-TC-001) passes

- Pay Loan screen (Bug-004) is fully functional

- Privacy Policy and Terms of Use are implemented and accessible

# 8 Risks Assumptions

## 8.1 Risks

| Risk | Probability | Impact | Mitigation |
|---|---|---|---|
| Inability to view transaction history could lead to user disputes and loss of trust in the application's financial integrity. | High | High | Prioritize the fix for FT-HISTORY-VIEW above all else. |
| A non-functional 'Pay Loan' feature directly impacts a core business function and potential revenue. | High | High | Allocate immediate development resources to fix the UI bug and ensure the feature works in all modes. |

## 8.2 Assumptions

- The backend services for transaction history and loan payments are functional, and the identified issues are client-side (UI/UX) bugs.
- Users expect a fully functional and visually consistent application, even for minor features like dark mode and language settings.

# 9 Market Specific Considerations

## 9.1 Primary Market

- Financial Services Users
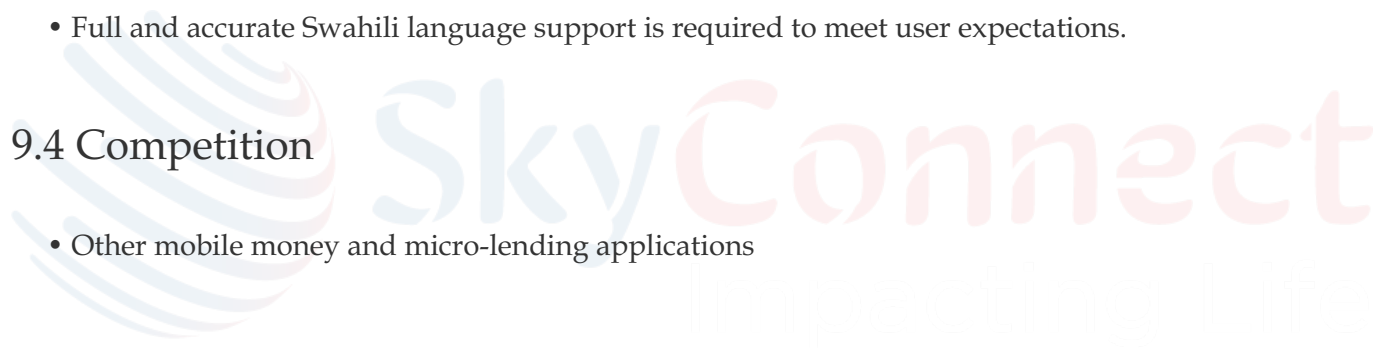
## 9.2 Target Demographics

- iPhone users needing money transfer and micro-loan services

## 9.3 Local Considerations

- Full and accurate Swahili language support is required to meet user expectations.

## 9.4 Competition

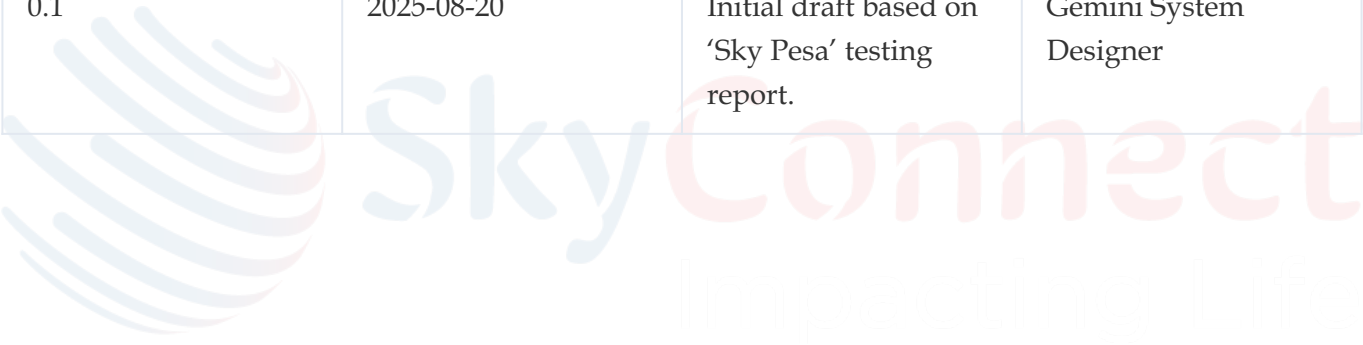- Other mobile money and micro-lending applications

# 10 Sign Off

## 10.1 Approval

| Role | Name | Signature | Date |
|------|------|-----------|------|
|      |      |           |      |

## 10.2 Document History

| Version | Date | Changes Made | Changed By |
|---------|------|--------------|------------|
| 0.1 | 2025-08-20 | Initial draft based on 'Sky Pesa' testing report. | Gemini System Designer |

# 11 Additional Context

## 11.1 Success Metrics

### 11.1.1 Customer Acquisition

Maintain a high user satisfaction rating reflected in app store reviews.

### 11.1.2 Partner Signups

N/A

### 11.1.3 Daily Orders

N/A

### 11.1.4 Customer Satisfaction

Resolve all identified bugs to achieve a 100% test pass rate.

### 11.1.5 Order Success Rate

N/A

### 11.1.6 Average Delivery Time

N/A