Info Agent Money Collection

Full Client Understanding Workbook
Project Report

Infopath Solutions
Confidential Project Documentation

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1. Introduction

> **Project Name:** Info Agent Money Collection App
> **Date:** 2026-02-14
> **Platform:** Android (Built with Expo React Native)

1.1. Project Goal

The primary goal of this project is to develop a mobile application for field agents to manage and record financial collections (Daily, Monthly, Loan) efficiently. The app is designed for offline use, allowing agents to work in areas with limited or no internet connectivity. It acts as a digital replacement for physical ledgers and ensures data integrity through a structured import/export process with a central society software.

1.2. Core Problem Statement

Field agents often struggle with managing cash collections, tracking pending payments, and manually transferring data to main office systems. This process is prone to errors, time-consuming, and lacks real-time oversight.

1.3. Proposed Solution

An Android-based mobile app with a local database that allows agents to:

- **Import** daily client lists from the main society software.
- **Collect** payments against various account types.
- **Track** collection status in real-time.
- **Export** collected data back to the main society software seamlessly.
- **Operate entirely offline**, syncing only through file transfers.

2. Proposed System 1: Core Functional Mapping

This section details the five core functionalities of the application and their clear implementation methods.

Proposed Point	Implementation Method	User Flow
1. Authentication & Profile Management	The app uses a local profile system. On first use, the agent adds their assigned Company Code and Agent Code. This information is stored locally and used to tag all future transactions.	1. User opens app. 2. Navigates to Collect or Sync tab. 3. Clicks [Add] to input Company and Agent details. 4. Once verified locally, the profile is set as "Current working profile."
2. Data Import (Offline Setup)	The agent receives a TXT or Excel file from the main society software. They place this file on their Android device. The app's import function reads the file and populates the local SQLite database.	1. Agent copies the file to their phone. 2. In Sync tab, select correct file type. 3. The app parses the file and loads clients. 4. Confirmation appears in Pending section.
3. Field Collection	The agent uses Collect and Clients tabs to manage their day. They search for a client, enter the amount, and confirm. The app updates the local database.	1. Go to Clients tab. 2. Use Search or Filter to find client. 3. Tap client account. 4. Enter amount and confirm. 5. Counters update automatically.
4. Data Export	At day end, agent uses export functions. The app queries local database and generates an XLSX, TXT, or PDF file in predefined format.	1. In Sync tab, tap Export option. 2. App generates file and saves to storage. 3. Agent copies file to office computer.
5. Society Software Posting	Office staff takes exported file and imports it into main society desktop software, updating central records.	1. Office receives file from agent. 2. They use society software's import function. 3. Central records are updated.

> ⚠️ **Important Implementation Note:** Data transfer to society software currently supports file-based transfer (share/USB/copy) after export. Direct live API posting from mobile to desktop software is not implemented in this version.

3. Clear Method: End-to-End Daily Operation

This section describes the step-by-step process an agent follows on a typical collection day.

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Step 1: Start of Day - Data Sync (Import)

Action: Before heading out, the agent gets the latest client list file from the office and copies it to their phone. They open the app, go to the Sync tab, and tap the appropriate "Import..." button.
Result: The "Clients Loaded" counter in the Pending section updates, and accounts appear in the Clients tab.

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Step 2: During Field Work - Collection

Action: After receiving payment from a client, the agent opens the app, navigates to the Clients tab, and searches for the client's name or account number.
Result: The agent taps the client, enters the collected amount, and saves. The app instantly updates the status.

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Step 3: End of Day - Reconciliation & Export

Action: The agent returns to the office. They open the app and go to the Reports tab. They select the current date to see a history of all exports.
Result: Once verified, they go to the Sync tab and tap "Export Daily" (or relevant type). The app generates the file.

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Step 4: Data Handover - Transfer to Society Software

Action: The agent connects their phone to the office computer or uses a file-sharing app. They copy the newly created export file.
Result: The office staff takes this file and imports it into the main society software, completing the cycle.

4. Full Feature Catalog

🔐 Authentication

- Agent/Company profile creation
- Profile switching
- Local session management

📥 Import

- TXT, XLS, XLSX support
- Separate Daily/Monthly/Loan importers
- Validation & error reporting

💰 Collect

- Quick fetch by last digits
- Full account search
- Profile display

👥 Accounts (Clients)

- Filter by date and type
- Real-time counters
- Detailed account view

🔄 Sync

- Centralized data transfer hub
- Visual pending counters
- Separate export buttons

📊 Reports

- Calendar view
- Export history
- File timestamps

5. Primary Data Fields & Reports for Agent

5.1. Primary Data Fields

Category	Fields
Company	Name, Short Code (e.g., PRIYAD)
Agent	Name, ID/Code (e.g., 100006)
Account	Account Number, Name, Account Type (Savings/Loan/Monthly), Last Digits
Collection	Date, Amount, Type (Daily/Monthly/Loan)
Export File	Lot Number, Collection Type, Timestamp

5.2. Reports for Agent

Report Type	Description
Daily Collection Report	List of all clients from whom collection was marked for a selected date. Can be viewed in app or exported as PDF.
Collection Status Report	Real-time view showing counts for "All," "Collected," and "Remaining" accounts.
Export History Report	Log of all files exported from device, accessible via calendar in Reports tab.

6. All Exported Functions (Technical Implementation Index)

This index outlines the core functions that would be implemented in the codebase.

Function Name	Module	Description	Input	Output
`addUserProfile()`	Auth	Stores agent and company details locally	companyCode, agentCode	boolean
`importFile(uri, type)`	Sync/Import	Reads file from storage, parses, and inserts into local SQLite DB	fileUri, collectionType	importSummary
`fetchAccountByLastDigits(digits)`	Collect	Queries local DB for accounts matching last digits	lastDigits	array of accounts
`searchAccounts(query)`	Clients	Searches local DB by name or account number	searchString	array of accounts
`updateCollectionStatus(accountId, amount)`	Collect	Updates collection status and amount for an account	accountId, collectedAmount	boolean
`getCollectionCounts(filterDate)`	Clients	Returns counts for total, collected, and remaining accounts	date	object {all, collected, remaining}
`exportData(collectionType, format)`	Sync/Export	Queries collected items and generates	collectionType, fileFormat	fileUri or error

Function Name	Module	Description	Input	Output
		file (XLSX/TXT/PDF)		
`getExportHistory(date)`	Reports	Scans export directory for files created on specific date	date	array of fileInfo
`clearLocalData()`	Data Controls	Deletes all imported client data from local database	none	boolean

7. Technical Specifications

Category	Specification
Platform	Android Mobile Application
Framework	Expo React Native
Database	Local SQLite (Offline-first)
File Import Formats	TXT, XLS, XLSX
File Export Formats	XLSX, TXT, PDF
Data Transfer Method	File-based (USB, Share, Copy)
Authentication	Local Profile-based

> 📱 **App Structure:**
> Main Modules: Authentication, Import, Collect, Accounts, Sync Export, Reports, Data Controls

8. Appendix: UI Screens Reference

Screen	Key Components	Primary Actions
Collect	Company & Agent Profile, Account Type selector, Quick Collect search	View profile, Search by last digits
Clients	Search bar, Filter options, Status counters (All/Collected/Remaining)	Search accounts, Filter list, Tap account for details
Reports	Calendar view, Export history list	Select date, View export files
Sync	Profile info, Pending counters, Export buttons, Import options	Import files, Export collections, Logout