# Software Requirements Specification (SRS) Expense Tracker Mobile Application

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#### 1 Introduction

#### 1.1 Purpose

The purpose of this SRS is to document the requirements for a mobile-first expense tracker application designed for Indian users, focusing on UPI-based transactions. The system will help users track expenses, receive alerts, and enforce budget limits, ensuring essential fixed costs are always covered.

#### 1.2 Scope

The solution will:

- Track and categorize expenses from multiple UPI apps using the Account Aggregator (AA) framework.
- Alert users when budgets are exceeded.
- Enforce limits to prevent overspending into fixed cost reserves.
- Support fund separation for different categories (e.g., rent, subscriptions).

Secondary goals:

- Optional transaction blocking if fixed cost funds are at risk.
- Expense analytics and trends.

#### 1.3 Definitions, Acronyms, and Abbreviations

- UPI Unified Payments Interface
- AA Account Aggregator
- SRS Software Requirements Specification
- FR Functional Requirement
- NFR Non-Functional Requirement

#### 1.4 References

- NPCI UPI Framework Documentation
- RBI Account Aggregator Guidelines

## 2 Overall Description

#### 2.1 Product Perspective

The product will be a standalone mobile application that integrates with the AA framework to fetch transaction data, process it, and present it to the user with alerts and budget enforcement.

#### 2.2 User Characteristics

- Age group: 18-30
- College students and early career professionals
- Familiar with smartphones and UPI apps

#### 2.3 Constraints

- Bank SMS and email are unreliable; only AA framework is considered dependable.
- SBI bank account as primary integration example.
- Mobile-first solution.

### 3 Functional Requirements (FRs)

- 1. Register new users.
- 2. Authenticate users via secure login.
- 3. Allow users to set budget categories and limits.
- 4. Fetch transactions from AA framework.
- 5. Categorize transactions automatically.
- 6. Store transactions in a secure database.
- 7. Notify users when budgets are exceeded.
- 8. Allow fund separation for fixed costs.
- 9. View expense analytics.
- 10. Ensure notifications are sent at any time.
- 11. Maintain service continuity even if user auth expires temporarily.

## 4 Non-Functional Requirements (NFRs)

- Performance: Transactions fetched within 5 seconds of availability.
- Reliability: Background service uptime > 99%.
- Security: End-to-end encryption for all transaction data.
- Usability: Simple, intuitive UI designed for mobile screens.
- Compliance: Follow RBI and NPCI guidelines.

## 5 System Architecture (High Level)

#### 5.1 Components

- Mobile App (Frontend)
- Backend API
- Database
- Background Worker Service
- Notification Service
- AA API Integration Layer

#### **5.2** Flow

- 1. User registers and sets budgets.
- 2. Background service fetches transactions via AA.
- 3. Transactions are categorized and stored.
- 4. Budget rules are checked, alerts sent if exceeded.
- 5. User views analytics on demand.

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5.3

## 6 Future Scope

- $\bullet$  AI-based expense categorization.
- Integration with investment tracking.
- Cross-platform web dashboard.