# Requirement Analysis for Calculating Family Expenses System on Service Now

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|---|---|
| Team id | NM2025TMID05401 |
| Project name | Calculating Family Expenses using service now |
| Team members | 4 |

# Requirement Analysis for Calculating Family Expenses System on Service Now

## 1. Purpose of Requirement Analysis

- Identify **what the system must do**.
- Define **user needs**, **functionalities**, and **constraints**.
- Serve as a foundation for **system design and implementation**.

## 2. Stakeholder Identification

Key stakeholders to interview or consider:

1. Family members (primary users)
2. Budget planner (if someone manages finances separately)
3. Administrators (for access control)
4. Optional: Financial advisors or accountants (if integration is needed)

## 3. Functional Requirements

These are the **tasks the system must perform**:

1. **Expense Management**
   - Add, edit, delete, and view expenses.
   - Categorize expenses (e.g., groceries, bills, rent, entertainment).
   - Support recurring expenses.

2. **Income Management**
   - Add, edit, delete, and view income entries.
   - Categorize income sources (salary, investment returns, gifts).
3. **Budget Tracking**
   - Set monthly/weekly budgets for categories.
   - Track actual expenses vs. budget.
4. **Reporting & Dashboard**
   - Generate monthly/weekly expense reports.
   - Display charts (pie chart, bar graph) for visual insights.
   - Highlight overspending categories.
5. **Notifications & Alerts**
   - Alert when spending exceeds budget.
   - Optional: reminders for recurring payments.
6. **Multi-User Support**
   - Allow different family members to log in.
   - Each user can see only their relevant data or shared data.
7. **Data Import/Export**
   - Import bank statements or spreadsheets.
   - Export reports in PDF or Excel.

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## 4. Non-Functional Requirements

These define **system qualities**:

1. **Performance**
   - Should handle multiple users simultaneously.
   - Fast response for dashboards and reports.
2. **Usability**
   - User-friendly forms and dashboards.
   - Easy for non-technical users to enter expenses.
3. **Security**
   - Access control per user/family member.
   - Ensure data privacy.
4. **Scalability**
   - Ability to add more categories or family members over time.
5. **Reliability**
   - Ensure data integrity (no loss of records).
   - Backup/restore options.

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## 5. Requirement Gathering Techniques

1. **Interviews** – Talk to family members about their needs.
2. **Questionnaires** – Collect structured inputs on expense tracking habits.
3. **Observation** – See how the family currently manages finances.

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4. **Document Analysis** – Review current spreadsheets or budget sheets.

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## 6. Requirement Documentation

- Use a **Software Requirement Specification (SRS)** template:
    1. Introduction & Purpose
    2. Stakeholders
    3. Functional Requirements
    4. Non-Functional Requirements
    5. Data Requirements