

REQUIREMENT ANALYSIS

Date : 22.10.2025
Team ID : NM2025T MID04135
Project Name : Calculating the family expenses using service now
Max mark : 4 Marks

1. Functional Requirements (FR)

These define what the system **must do**:

1. Expense Submission

Family members can submit expenses through a **ServiceNow Expense Form**.

- o Fields: Date, Amount, Category, Description, Paid By, etc.

2. Approval Flow

- o Optional: Certain expenses need **approval** by a head of family.
- o Automatic notifications for pending approvals.

3. Expense Storage

- o All submitted expenses stored in **ServiceNow Tables** ([Family_Expense](#), [Expense_Category](#)).

4. Calculation

- o Total expenses per member, category, or month.
- o Automatic summation and balance calculation.

5. Reporting & Dashboard

- Visual reports for **spending trends, category-wise breakdown, and family budget summary.**
- Export options (Excel, PDF).

?

Requirement Analysis: Family Expense Calculation using ServiceNow

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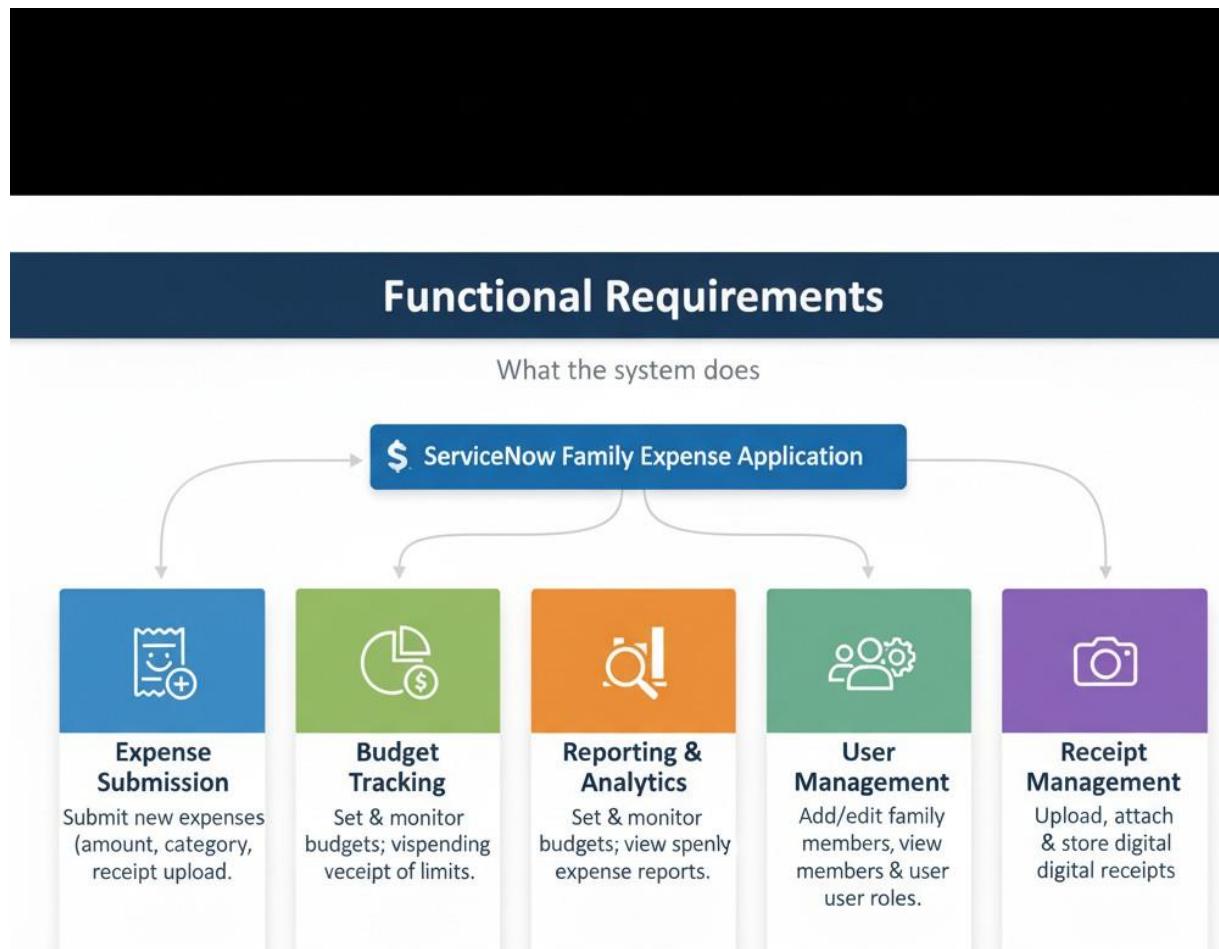
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2. Non-Functional Requirements (NFR)

These define **how the system performs**:

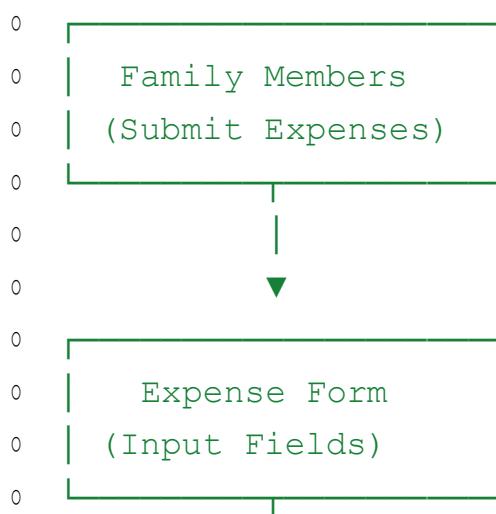
- **Usability:** Simple, easy-to-use forms for family members.
 - **Reliability:** Accurate calculation and storage.
 - **Security:** Only authorized family members can submit/view expenses.
 - **Performance:** Fast data entry and report generation.
 - **Scalability:** Should handle growing number of expenses and members.
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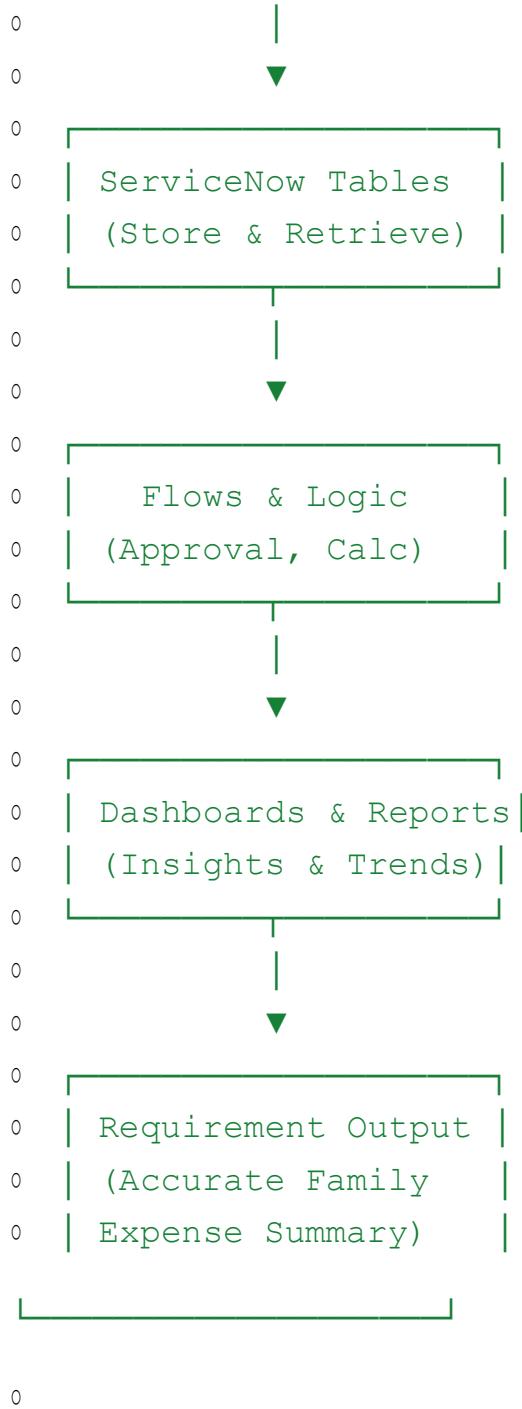
3. Actors

- **Family Members:** Submit expenses, view their own data.
 - **Family Head / Admin:** Approve expenses, monitor reports.
 - **ServiceNow System:** Stores data, executes flows, generates dashboards.
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4. Requirement Analysis Diagram (Simple Flow)

Here's the **textual layout** of the diagram I'll generate:





Non-Functional Requirements (NFRs)

How the system performs



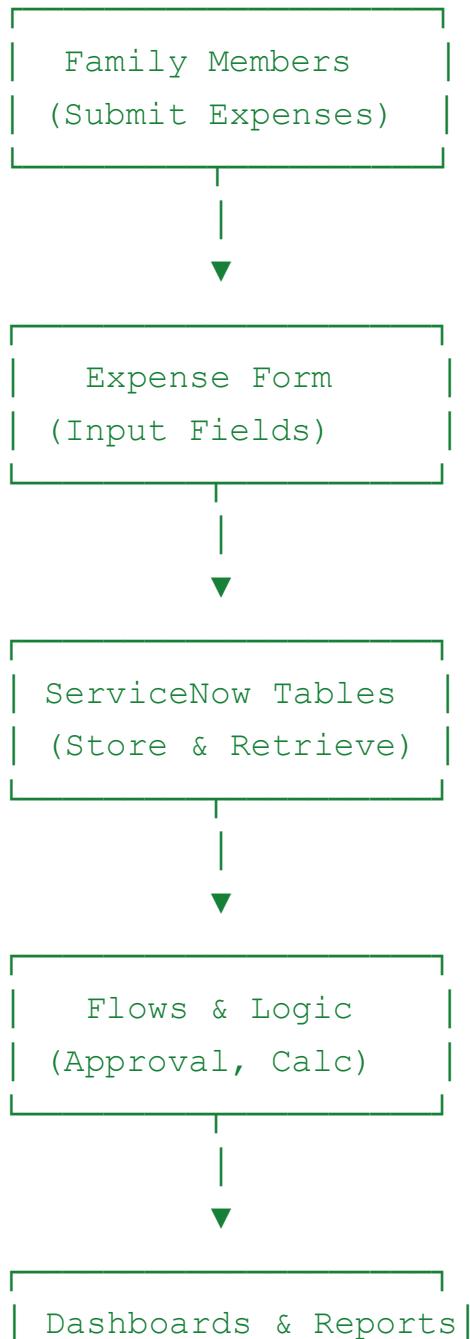
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| (Insights & Trends) |



| Requirement Output |

| (Accurate Family |

| Expense Summary) |