

REQUIREMENT ANALYSIS

Date : 22.10.2025
Team ID : NM2025TMID02450
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**.

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

2. Approval Flow

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

3. Expense Storage

- All submitted expenses stored in **ServiceNow Tables** (**Family_Expense**, **Expense_Category**).

4. Calculation

- Total expenses per member, category, or month.
- 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

1. Functional Requirements (FR)

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

1. Expense Submission

- Family members can submit expenses through a **ServiceNow Expense Form.**
- Fields: Date, Amount, Category, Description, Paid By, etc.

2. Approval Flow

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

3. Expense Storage

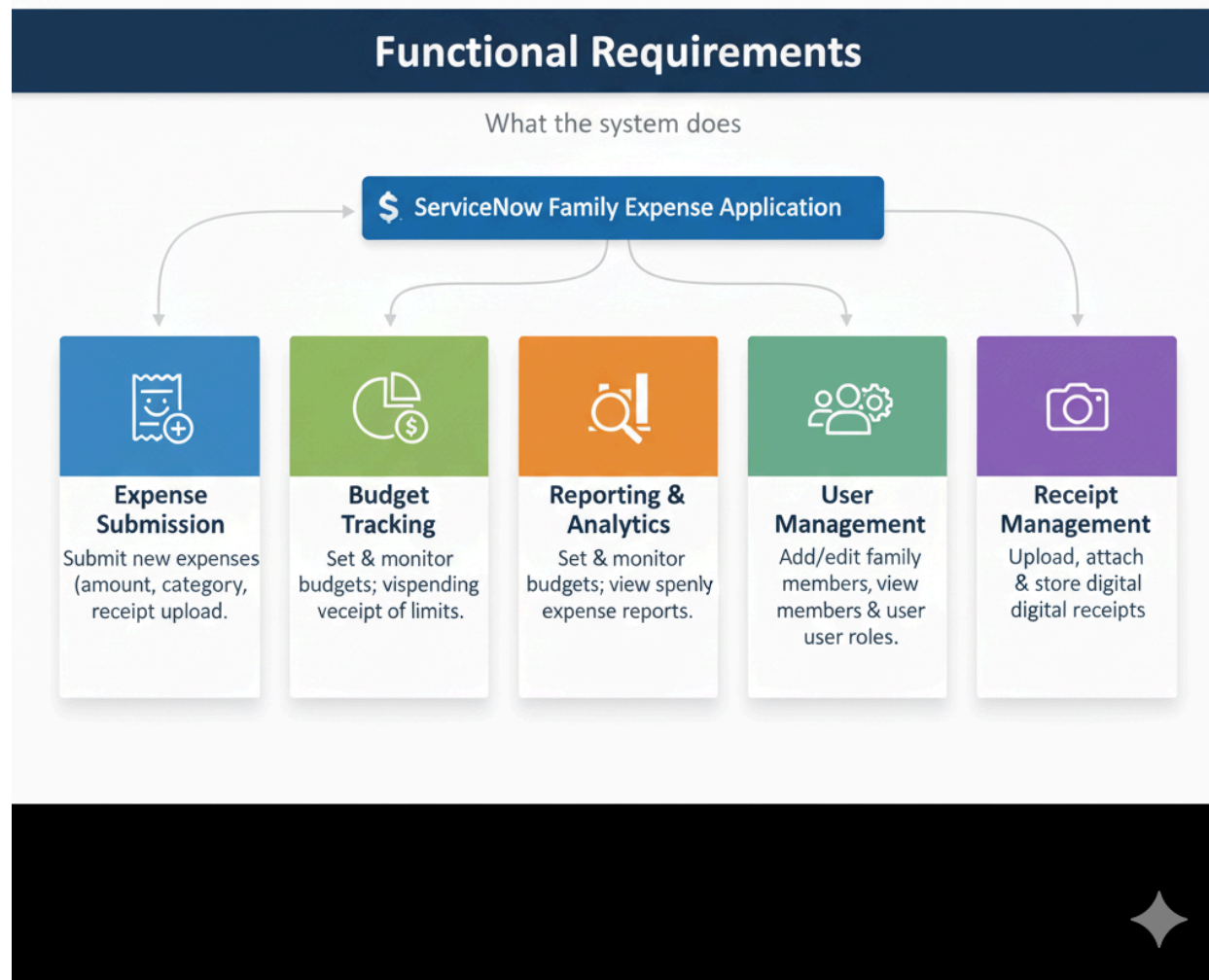
- All submitted expenses stored in **ServiceNow Tables** (**Family_Expense, Expense_Category**).

4. Calculation

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

5. Reporting & Dashboard

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



2. Non-Functional Requirements (NFR)

These define **how the system performs**:

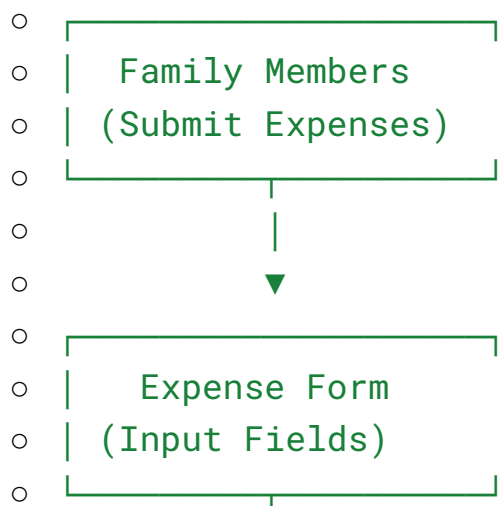
- **Usability:** Simple, easy-to-use forms for family members.
 - **Reliability:** Accurate calculation and storage.
 - **Security:** Only authorized family members can submit/view expenses.
 - **Performance:** Fast data entry and report generation.
 - **Scalability:** Should handle growing number of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

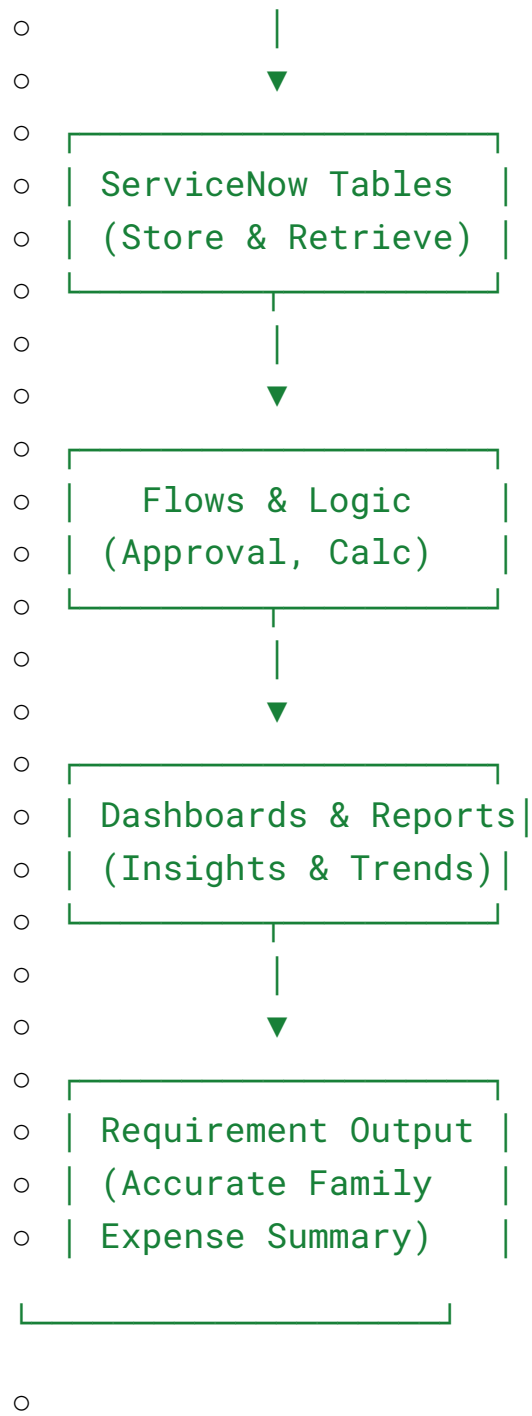
3. Actors

- **Family Members:** Submit expenses, view their own data.
 - **Family Head / Admin:** Approve expenses, monitor reports.
 - **ServiceNow System:** Stores data, executes flows, generates dashboards.
-

4. Requirement Analysis Diagram (Simple Flow)

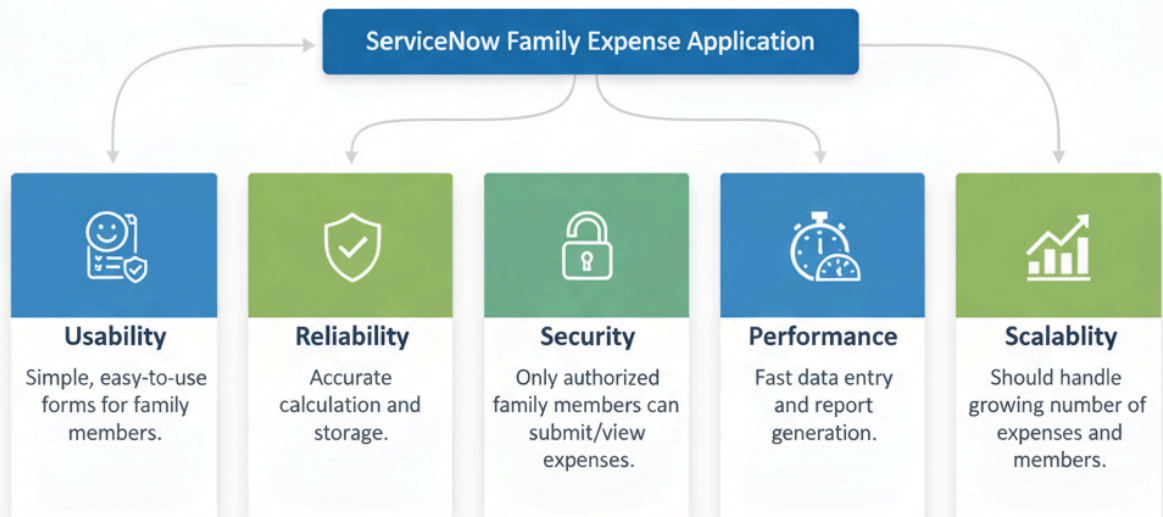
Here's the **textual layout** of the diagram I'll generate:





Non-Functional Requirements (NFRs)

How the system performs



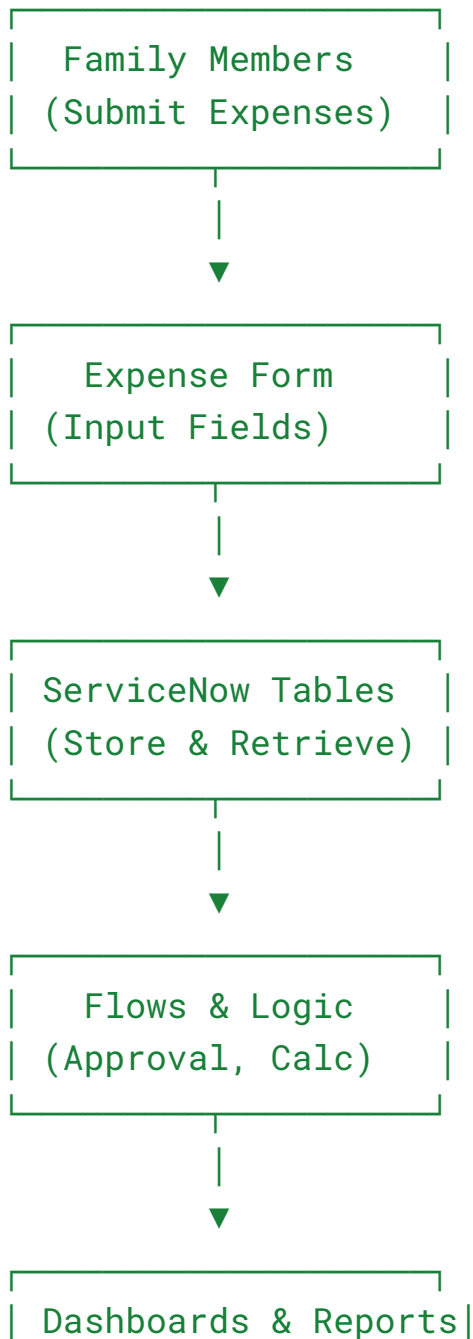
3. Actors

- **Family Members:** Submit expenses, view their own data.
- **Family Head / Admin:** Approve expenses, monitor reports.

- **ServiceNow System:** Stores data, executes flows, generates dashboards.

4. Requirement Analysis Diagram (Simple Flow)

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



| (Insights & Trends) |



| Requirement Output |
| (Accurate Family |
| Expense Summary) |