

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	2 November 2025
Team ID	NM2025TMID06655
Project Name	Calculating Family Expenses Using Service Now
Maximum Marks	2 Marks

Functional Requirements

The following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Family Expenses Table Creation	Create a <i>Family Expenses</i> table to store total expense details (Date, Amount, Expense Details).
FR-2	Daily Expenses Table Creation	Create a <i>Daily Expenses</i> table for recording daily expense entries by family members.
FR-3	Form Configuration	Configure <i>Family Expenses</i> and <i>Daily Expenses</i> forms with read-only and mandatory fields for data accuracy.
FR-4	Relationship Establishment	Link <i>Daily Expenses</i> to <i>Family Expenses</i> to maintain data hierarchy and relationship.
FR-5	Business Rule Implementation	Create a <i>Business Rule</i> to automatically update Family Expenses when new Daily Expenses are added or modified.
FR-6	Real-Time Data Update	Ensure Family Expenses' total amount and expense details update instantly whenever new data is entered.
FR-7	Related List Configuration	Display Daily Expenses as a related list within Family Expenses for clear visualization.
FR-8	Expense Reporting	Generate reports summarizing monthly spending, total expenses, and category-based analysis.
FR-9	Validation & Alerts	Validate mandatory fields and trigger warnings if data is missing or inconsistent.
FR-10	Dashboard View	Provide a simple ServiceNow dashboard showing total monthly expenses and budget summary.

Non-Functional Requirements

The following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be user-friendly and easy for all family members to enter and view expenses.
NFR-2	Security	Only authorized users can access, modify, or delete expense data.
NFR-3	Reliability	System must consistently update and synchronize both Family and Daily Expenses tables without failure.
NFR-4	Performance	Data updates, business rule execution, and related list loading should occur in less than 2 seconds.
NFR-5	Availability	The system should be accessible at all times for data entry and reporting.
NFR-6	Scalability	Should support multiple family members, increased data entries, and additional expense categories.
NFR-7	Maintainability	Code, rules, and tables should be easy to update for future enhancements.
NFR-8	Data Integrity	Data should remain accurate, consistent, and free from duplication across both tables.