

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

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

### Functional Requirements

The following are the functional requirements of the proposed solution.

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

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