

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

Date	06 November 2025
Team ID	NM2025TMID01384
Project Title	Calculating Family Expenses Using ServiceNow
Maximum Mark	4 Marks

Functional Requirements:

The following are the functional requirements of the proposed Family Expense Calculation System built using ServiceNow.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Family Expense Entry	Users can add daily expenses through a simple form. Each entry includes date, amount, and expense details.
FR-2	Expense Categorization	System categorizes expenses into various heads (e.g., Food, Bills, Entertainment, etc.) for better insights.
FR-3	Automated Calculation	Business Rule automatically updates <i>Family Expenses Table</i> when new <i>Daily Expense</i> is added or modified.
FR-4	Relationship Management	Relationship between <i>Family Expenses</i> and <i>Daily Expenses</i> ensures data is synchronized in real-time.
FR-5	Budget Setting	Users can set a monthly budget limit for total family expenditure.
FR-6	Expense Summary & Reports	System generates detailed and summarized reports based on date, amount, and category for analysis.
FR-7	User Access Control	Admin or family head can view and manage all records, while members can only add or view their own expenses.

FR-8	Data Storage & Maintenance	All expense records are securely stored in ServiceNow tables with automatic number generation and tracking.

Non-Functional Requirements

These describe the expected quality and operational characteristics of the system.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The user interface should be simple, intuitive, and easy for all family members to operate.
NFR-2	Security	Only authorized users can access and modify expense data; sensitive data is protected using ServiceNow's access control.
NFR-3	Reliability	The system must maintain data accuracy during all expense updates and aggregation.
NFR-4	Performance	Expense calculations and updates must occur automatically without noticeable delay.
NFR-5	Availability	The ServiceNow instance must remain available for users to access or record expenses anytime.
NFR-6	Scalability	The system should handle increased family members and large volumes of expense data efficiently.
NFR-7	Maintainability	Updates, category modifications, or report customizations should be easily manageable by the admin.
NFR-8	Integration	Should allow integration with other ServiceNow applications or external tools for analytics and dashboards.