

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

Date:	02 Nov 2025
Team ID	NM2025TMID01191
Project Name	Calculating Family Expenses using ServiceNow
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Daily Expense Entry	A user must be able to create a Daily Expenses record. The record must capture Date, Expense Amount, Family Member Name, and Comments.
FR-2	Automated Expense Aggregation	The system must automatically create a master Family Expenses record for any date that has a new Daily Expense. If a Family Expenses record for a date already exists, the system must add the new amount to the total. The system must append the Daily Expenses comments to the master Family Expenses detail field.
FR-3	Data Linking & Visibility	The Family Expenses form must show a related list of all Daily Expenses that make up its total. The related list must only show daily records that match the master record's date.
FR-4	Unique Record Identification	Both Family Expenses and Daily Expenses tables must have an auto-incrementing number field. Family Expenses records should be prefixed with "MFE". Daily Expenses records should have their own unique prefix (e.g., "MDE").
FR-5	Form & Data Integrity	The Number field on both forms must be Read-Only. Date and Amount fields must be Mandatory on the Daily Expenses form.
FR-6	Expense Categorization	Users should be able to assign a category (e.g., Groceries, Utilities, Rent) to each Daily Expense.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface for adding a new Daily Expense must be simple and fast for all family members to use.
NFR-2	Security	Only authorized users (family members) should be able to view or add expense records.
NFR-3	Reliability	The system must correctly and accurately calculate the total Family Expenses from all Daily Expenses every time. The aggregation Business Rule must not fail.

NFR-4	Performance	The Family Expenses total must update in real-time (or near real-time) after a Daily Expense is submitted.
NFR-5	Availability	The system should be available 24/7 so family members can log expenses as they occur.
NFR-6	Scalability	The application must handle a growing database of expenses over many years without slowing down aggregation or reporting.