

## PROJECT DESIGN PHASE-II

### SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Date:	2 NOVEMBER 2025
Team ID:	NM2025TMID00668
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	Family Member Registration	Registration through Form Email verification Profile creation with member details
FR-2	Expense Entry	Add daily expenses with date and amount Select family member Add expense description/comments
FR-3	Family Expense Tracking	Record family-level expenses Capture expense date and amount Add detailed expense information
FR-4	Expense Categorization	Categorize expenses (Food, Transport, Bills, etc.) Assign categories to daily expenses Track spending by category
FR-5	Expense Calculation	Calculate total expenses by family member Calculate total expenses by category Calculate overall family expenses
FR-6	Report Generation	Generate monthly expense reports Generate member-wise expense summary Generate category-wise expense analysis
FR-7	Data Validation	Validate mandatory fields (Date, Amount) Validate numeric values for amounts Prevent duplicate entries

FR-8	Expense Modification	Edit existing expense records Delete expense entries Update expense details
FR-9	Search and Filter	Search expenses by date range Filter by family member Filter by expense category

### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be intuitive and easy for family members to add and view expenses.
NFR-2	Security	Only authorized family members can view and manage their own expense data. Role-based access control implemented.
NFR-3	Reliability	The system must accurately calculate and store all expense data without data loss.
NFR-4	Performance	Expense calculations and report generation should happen quickly without delay (within 2-3 seconds).
NFR-5	Availability	The system should be available 24/7 for family members to add expenses anytime.
NFR-6	Scalability	The system should handle growing number of expense entries and family members without performance degradation.