

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	2 November 2025
Team ID	NM2025TMID05198
Project Name	Calculating Family Expenses using ServiceNow
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Family Expenses Table	Create a main table to store summarized family expenses (date, amount, details).
		Enable automatic total calculation for daily expenses linked to each date.
FR-2	Daily Expenses Table	Create a sub-table to record daily expense details (date, amount, comments, family member).
		Link each daily expense record with the Family Expenses table using date relationships.
FR-3	Business Rule Automation	Implement a business rule to automatically calculate totals and update the Family Expenses table.
FR-4	Auto Number Generation	Configure Number Maintenance for automatic record numbering (MFE and DFE).
FR-5	Relationship Management	Establish one-to-many relationships between Family Expenses and Daily Expenses.
FR-6	Form Customization	Make number fields read-only, date fields mandatory, and design user-friendly forms.
FR-7	Reports and Dashboards	Generate reports and dashboards to view daily and monthly summaries.
FR-8	Data Validation	Ensure required fields are filled correctly and handle invalid data entries.

Non-Functional Requirements:

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The interface should be simple and easy for any family member to record expenses.
NFR-2	Performance	The Business Rule must execute quickly to update totals in real time without lag.
NFR-3	Reliability	The system must ensure that all recorded expenses are accurately summarized.
NFR-4	Security	Only authorized users should be able to modify or delete expense records.
NFR-5	Availability	The application should be accessible anytime through the ServiceNow instance.
NFR-6	Scalability	The system should support adding more family members or expense categories without impacting performance.
NFR-7	Maintainability	The application should allow easy updates and improvements in future versions.
NFR-8	Accuracy	All automatic calculations must be correct, reflecting exact totals and data consistency.