

**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:

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