Project Design Phase – II

Solution Requirements (Functional & Non-functional)

Date	2 November 2025
Team ID	NM2025TMID03101
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Expense Entry Management	Create a form to record daily expenses. Allow users to select the date, amount, and category of expense.
FR-2	Family Member Integration	Create a reference field to link each expense to a family member. Maintain a separate Family Member table for data consistency.
FR-3	Data Validation	Implement mandatory fields (e.g., date, amount). Prevent saving invalid references or blank entries.
FR-4	Expense Categorization	Allow users to categorize expenses (e.g., Food, Travel, Utilities). Generate summary reports based on expense categories.
FR-5	Reporting & Analytics	Enable reports to display total expenses per member and category. Allow filtering of reports by date range or family member.
FR-6	Access Control	Define user roles (Admin/User) with restricted permissions. Ensure only Admin can modify or delete records.
FR-7	Expense Overview Dashboard	Provide a ServiceNow dashboard showing total expenses and trends. Use ServiceNow widgets for visual representation (pie and bar charts).

Non-Functional Requirements:

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The form layout should be intuitive, allowing quick entry of expenses.
NFR-2	Security	Only authorized users can access or modify family expenses.
NFR-3	Reliability	The system must correctly link every expense to the chosen family member.
NFR-4	Performance	Data entry and retrieval should happen instantly without noticeable delay.
NFR-5	Availability	The tracker should be accessible at all times for adding and viewing expenses.
NFR-6	Scalability	The application must support additional members and categories as the family grows.
NFR-7	Maintainability	Future modifications like adding new fields or dashboards should be easy.