

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

Date	2 NOVEMBER 2025
Team ID	NM2025TMID09055
Project Name	Calculating Family Expenses using Service Now
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	User Management	User registration and login Role-based access control (Admin, Member) Profile management
FR-2	Expense Entry and Categorization	Add, edit, or delete expenses Categorize expenses (e.g., Food, Rent, Utilities) Attach receipts or notes to expenses
FR-3	Budget Management	Set monthly or yearly budgets per category Track actual vs. planned spending Receive alerts when limits are reached
FR-4	Real-Time Tracking and Dashboard	Display total income, expenses, and balance Visualize spending trends with charts and graphs Provide category-wise expense summaries
FR-5	Reporting and Analytics	Generate downloadable monthly/yearly reports Compare expenses over time Suggest saving opportunities based on trends
FR-6	Notifications and Alerts	Automated reminders for bill payments Alerts for budget thresholds Notifications for unusual spending patterns
FR-7	Data Management and Security	Store data securely in ServiceNow tables Ensure data backup and recovery Provide access logs and audit trails
FR-8	Integration and Scalability	Integrate with ServiceNow modules (e.g., Task, Incident) Support API connections for external data Allow expansion for multiple families or users

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Performance</b>	The system should run smoothly and respond quickly to user actions.
NFR-2	<b>Security</b>	User data should be protected through encryption and access controls.
NFR-3	<b>Reliability</b>	The system should operate consistently with minimal downtime.
NFR-4	<b>Usability</b>	The interface should be simple, intuitive, and easy to navigate.
NFR-5	<b>Maintainability</b>	It should be easy to update, configure, and troubleshoot.
NFR-6	<b>Availability</b>	The system must be accessible anytime from various devices

NFR-7	<b>Scalability</b>	It must support growth in users and data without affecting performance.
NFR-8	<b>Compatibility</b>	It should work seamlessly across browsers and operating systems.
NFR-9	<b>Auditability</b>	All activities should be logged for tracking and transparency.