

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	
Team ID	NM2025TMID05673
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

#### 1. Functional Requirements

Functional requirements describe **what the system should do** — the core features, operations, and behavior of the application.

ID	Requirement Description	Category	Priority	Acceptance Criteria
FR-01	Users should be able to <b>add, edit, and delete expenses</b>	Expense Management	High	Expenses are saved and updated correctly in the database
FR-02	System should <b>categorize expenses</b> (e.g., food, bills, transport)	Expense Categorization	High	Expense categories appear correctly on reports
FR-03	Allow users to <b>set monthly or weekly budgets</b>	Budget Setting	Medium	System tracks and alerts when expenses exceed budget
FR-04	Generate <b>monthly/annual reports</b>	Reporting	High	Reports display accurate totals and summaries
FR-05	Enable <b>multi-user login</b> for family members	User Management	Medium	Each member can access their expense data
FR-06	Provide <b>graphical dashboard</b> to visualize expenses	Dashboard Visualization	Medium	Charts display categorized data
FR-07	Enable <b>data export</b> to Excel or PDF	Data Handling	Low	Users can download their expense reports

#### 2. Non-Functional Requirements

Non-functional requirements define **how the system performs** — including reliability, security, performance, and usability.

ID	Requirement Description	Category	Priority	Measurement Criteria
NFR-01	System should be <b>secure</b> and allow access only to authenticated users	Security	High	Encrypted logins, password policies
NFR-02	System should <b>respond within 2 seconds</b> for user requests	Performance	High	Load testing response times
NFR-03	Application should be <b>available 24/7</b> with 99% uptime	Reliability	High	ServiceNow uptime monitoring
NFR-04	Interface should be <b>user-friendly and mobile compatible</b>	Usability	Medium	User satisfaction and feedback
NFR-05	System must <b>back up data daily</b>	Data Recovery	Medium	Automated backup logs
NFR-06	Support <b>scalability</b> for adding multiple users and large data sets	Scalability	Medium	Load balancing and data partitioning
NFR-07	Ensure <b>data privacy</b> according to organizational policies	Compliance	High	ServiceNow compliance verification

### Purpose of This Section

This section ensures that:

- All functional goals of the family expense system are well-defined.
- Performance and quality standards are maintained.
- Developers, testers, and stakeholders have a clear understanding of what the system should deliver and how it should behave.