

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

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| Date | 02 NOV 2025 |
| Team ID | NM2025TMID03531 |
| 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 | Expense Entry | User can add a new daily expense with date, member name, and amount. |
| FR-2 | Expense Validation | System validates the input and ensures no missing or incorrect data |
| FR-3 | Family Expense Linking | System checks if a family expense record already exists for the given date. |
| FR-4 | Automatic Update | If a record exists, the system adds the new daily expense amount to the existing family expense total. |
| FR-5 | Record Creation | If no record exists, the system automatically creates a new family expense entry. |
| FR-6 | Expense Reporting | Generate reports showing daily and total family expenses for selected periods. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The interface should be user-friendly and simple to input and view expenses. |
| NFR-2 | Reliability | The system must ensure correct date-based aggregation every time a new expense is added. |
| NFR-3 | Performance | The calculation and record update should be performed instantly without delay. |
| NFR-4 | Accuracy | The total family expense should always reflect correct sums of all related daily expenses. |
| NFR-5 | Scalability | The solution should support an increasing number of expense entries and family members. |
| NFR-6 | Maintainability | The system should allow easy modification of rules and expansion of features such as categories or budgets. |