Solution Requirement

Functional Requirements

Functional Requirements

ID	Requirement Type	Requirement Description
FR-01	User Management	Users must be able to register and log in securely.
FR-02	User Management	Only authenticated users can add, view, or edit expenses.
FR-03	User Management	Each family's data must be visible only to respective users.
FR-04	Expense/Income Entry	Users must be able to add income and various expense entries.
FR-05	Expense/Income Entry	Each entry should contain date, amount, category, and description.
FR-06	Expense/Income Entry	Users must be able to edit or delete existing records.
FR-07	Automatic Calculations	System must calculate total income, total expenses, and remaining balance.
FR-08	Automatic Calculations	Values should update automatically after record changes.
FR-09	Reports & Analytics	System must generate monthly summaries and categorized reports.
FR-10	Reports & Analytics	Dashboards must include charts like bar, pie, or line graphs.
FR-11	Notifications	System should alert users when spending exceeds budget.
FR-12	Data Storage	All records must be stored in ServiceNow tables with timestamps.

Non-Functional Requirements

ID	Requirement Type	Requirement Description
NFR-01	Usability	Interface should be simple for non-technical family members.
NFR-02	Usability	Forms should include validation (required fields, no negative values).
NFR-03	Security	Only logged-in users can access financial data.
NFR-	Security	System must use ACLs to protect user information.

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NFR-05	Performance	System should respond quickly and handle multiple records.
NFR-06	Performance	Calculations and dashboard updates should happen in real time.
NFR-07	Reliability	Data must not be lost on refresh or restart.
NFR-08	Reliability	Records should be backed up periodically.
NFR-09	Scalability	System should support future enhancements (extra categories, more families).
NFR-10	Maintainability	Business rules and scripts should be modular for easier updates.

System Constraints

ID	Constraint Description
C-01	Only web version is developed (no mobile app).
C-02	Uses free ServiceNow developer instance.
C-03	No online banking integration in current phase.