

Project Design Phase-II

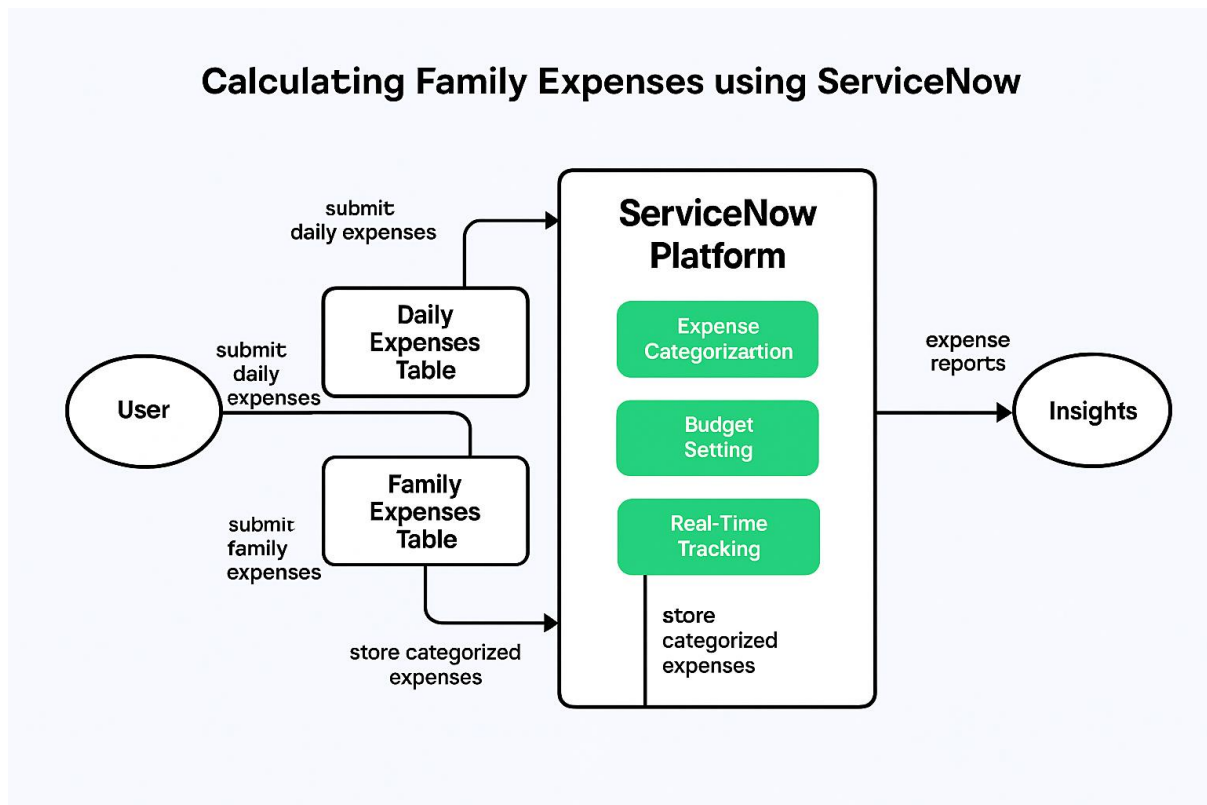
Data Flow Diagram & User Stories

Date:	02 Nov 2025
Team ID	NM2025TMID01191
Project Name	Calculating Family Expenses using ServiceNow
Maximum Marks	2 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) visually represents the flow of information through the system. For the "Calculating Family Expenses" project, the DFD illustrates how individual expense transactions are processed, aggregated, and stored into a financial summary.

The DFD shows the interaction between the Family Member (external entity), the core system processes (capture and aggregation), and the two data stores (Daily Expenses and Family Summary) to maintain a single, accurate ledger for the family's finances.



User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they ensure the system captures, aggregates, and reports financial data correctly.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Family Member	Daily Expense Entry	USN-1	As a Family Member, I want to quickly log a new expense, so the family can accurately track spending.	A new record is created in the Daily Expenses table with mandatory fields (Date, Amount, Member Name) populated.	High	Sprint-1
System (Auto-check)	Automated Aggregation	USN-2	As the System, I must automatically calculate and update the total amount on the Family Expenses Summary whenever a new daily expense is recorded.	The master Family Expenses record amount for the corresponding date is updated immediately, reflecting the correct sum of all daily expenses.	High	Sprint-1
Family Manager	Summary Reporting	USN-3	As a Family Manager, I want to view a summary of all expenses for any given day, so I can monitor and analyze our daily budget.	When viewing the Family Expenses form, the Related List shows all corresponding Daily Expenses records for that date.	Medium	Sprint-1
Family Manager	Budget Setting	USN-4	As a Family Manager, I want to set a monthly budget for categories, so I can receive an alert when we are close to overspending.	The system allows budget definition and triggers a notification/warning if actual spending exceeds 80% of the budget.	Medium	Sprint-2