

## PROJECT DESIGN PHASE-II

### Data Flow Diagram & User Stories

Date	28/10/2025
Team ID	NM2025TMID08189
Project Name	Calculating family expenses using service now
Maximum Marks	4

#### Data Flow Diagram

A Data Flow Diagram (DFD) visually represents how data moves through the system. In this project, the DFD illustrates how family members submit expenses, how those expenses are categorized, and how budget alerts and reports are generated. It ensures clarity in how data flows between users, processes, and storage components.

#### Key Flow Summary:

1. **User submits expense** via Service Catalog form
2. **System stores expense** in the Expense Records table
3. **Categorization logic** updates Category Budgets
4. **Budget Alert workflow** checks thresholds and notifies users
5. **Dashboard** pulls data from Expense Records and Category Budgets
6. **Monthly Report** compiles data and sends to Admin

#### User Stories:

User stories define what different users need from the system in simple, goal-focused language. These stories ensure the system supports secure, accurate, and user-friendly expense tracking.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Contributor	Expense Submission	USN-1	As a contributor, I want to submit my expenses with category and notes.	Expense is logged correctly and stored in the system.	High	Sprint-1
System	Budget Monitoring	USN-3	As a system, I must check if submitted expenses exceed category budgets.	Alert is triggered when budget threshold is crossed.	High	Sprint-2
Viewer	Dashboard Access	USN-3	As a viewer, I want to see a visual breakdown of monthly expenses.	Dashboard displays accurate and updated data.	Medium	Sprint-2
Admin	Role Management	USN-4	As an admin, I want to assign roles to family members.	Roles are assigned and access is restricted accordingly.	High	Sprint-1
Admin	Monthly Reporting	USN-4	As an admin, I want to receive monthly expense reports.	Report is generated and delivered on schedule.	Medium	Sprint-3