PROJECT DESIGN PHASE-II

DATA FLOW DIAGRAM & USER STORIES

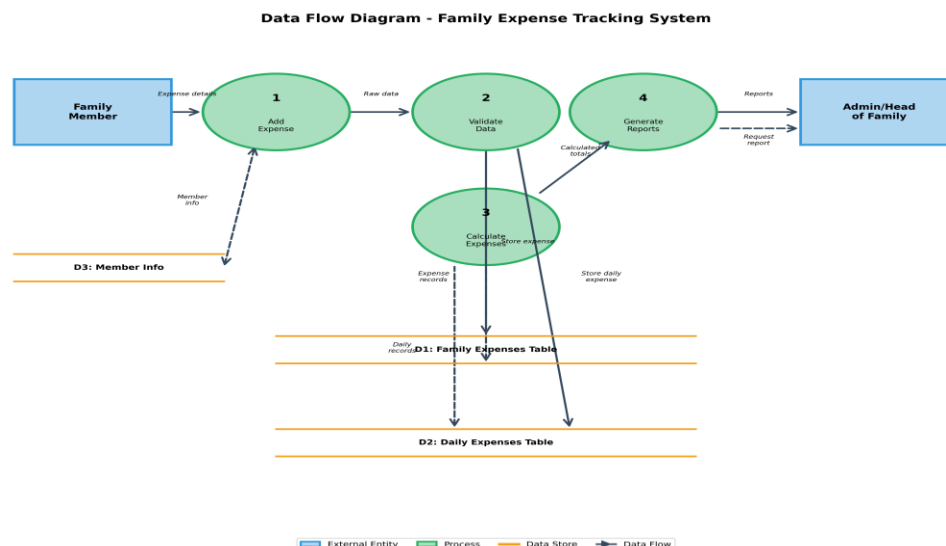|	
Date:	2 NOVEMBER 2025
Team ID:	NM2025TMID00668
Project Name:	Calculating Family Expenses using ServiceNow
Maximum Marks:	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

In the project "Calculating Family Expenses using ServiceNow", Data Flow Diagrams (DFDs) illustrate how expense data flows through the system. The DFD shows the interaction between family members, the system processes, and the database tables (Family Expenses and Daily Expenses) to capture, validate, calculate, and report expense information. The system ensures accurate expense tracking and provides comprehensive reports to help families manage their finances effectively.

Example:

User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they help ensure the system accurately captures and calculates family expenses, providing valuable insights for financial management.

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance criteria	Priority	Release
Family Member	Expense Entry	USN-1	As a family member, I want to add my daily expenses to the system.	The system should accept expense details (date, amount, member name, comments) and save successfully.	High	Sprint-1
System (Auto-validate)	Data Validation	USN-2	As a system, I must validate that all mandatory fields (Date, Amount) are filled before saving.	System should show error message if mandatory fields are missing. Save only if all validations pass.	High	Sprint-1
Admin/Head of Family	Expense Tracking	USN-3	As an admin, I want to view all family expenses in one place.	System displays a list view of all family expenses with	High	Sprint-1

					filtering options by date and member.		
Admin/Head of Family	Report Generation	USN-4	As an admin, I want to generate monthly expense reports.	System should generate reports showing total expenses by member and category for selected month.	Medium	Sprint-2
Family Member	Expense Calculation	USN-5	As a family member, I want to see my total expenses for the current month.	System should automatically calculate and display member-wise total expenses.	Medium	Sprint-2
Admin/Head of Family	Budget Monitoring	USN-6	As an admin, I want to track expenses against a monthly budget.	System should show remaining budget and alert when expenses exceed the set budget limit.	Low	Sprint-3