Project Design Phase-II
Data Flow Diagram & User Stories

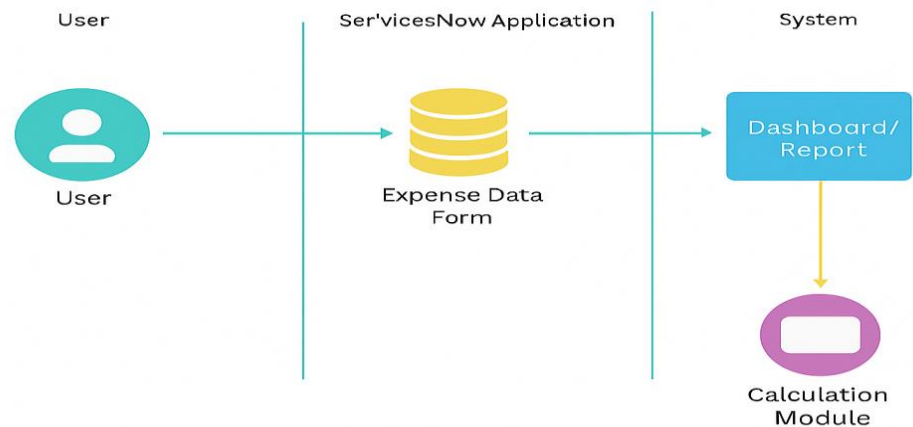| Date	2 November 2025
Team ID	NM2025TMID00454
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) visually represents how data moves through the *Family Expense Calculation System* built on ServiceNow. It shows how users enter, categorize, and calculate expenses, and how the system processes and stores data for summary and reporting.

In the project *"Calculating Family Expenses using ServiceNow,"* the DFD illustrates interactions between users, the ServiceNow application, and the expense database.
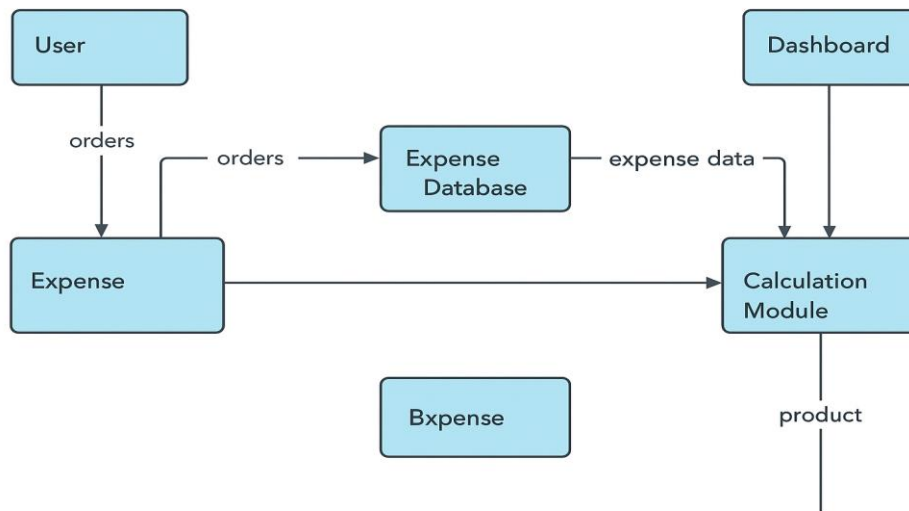
Users add daily expenses, which are stored and categorized by the system. The system calculates total monthly and yearly expenses and generates reports for better financial insights.

Example:

1. User inputs expense details (date, category, amount).

2. System stores expense data in database rece.

3. System calculates total and categorized expenses.

4. User views summary dashboard and reports.

User Stories:

User stories define what different users need from the system in simple, goal-focused language. For this project, they describe how family members can record, view, and analyze expenses using ServiceNow.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Family Member	Expense Entry	USN-1	As a user, I want to enter daily expenses with category and amount.	The system should allow adding expenses and saving them successfully.	High	Sprint-1
System	Expense Calculation	USN-2	As a system, I should automatically calculate total and categorized expenses.	Totals must update automatically when new data is entered.	High	Sprint-2
Family Member	Dashboard	USN-3	As a user, I want to view monthly and yearly expense summaries on a dashboard.	Dashboard must display accurate, updated visual summaries.	High	Sprint-3
Admin	Budget Setup	USN-4	As an admin, I want to set monthly budget limits and get alerts when exceeded.	System should trigger alerts when expenses cross budget limits.	Medium	Sprint-3
User	Data Export	USN-5	As a user, I want to export expense reports in Excel or PDF.	Reports must download in selected format with correct totals.	Medium	Sprint-4