

Project Design Phase-II

Data Flow Diagram & User Stories

Date	
Team ID	NM2025TMID05673
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

Data Flow Diagram (DFD):

A Data Flow Diagram visually represents how data moves through a system. It shows the inputs, processes, storage points, and outputs of data within the application. In the context of *Calculating Family Expenses using ServiceNow*, a DFD helps to understand how expense data is entered, processed, stored, and displayed in reports or dashboards.

A. Data Flow Diagram (DFD) Template

DFD Level	Description	Process	Input	Output	Data Store
Level 0	Overall expense management system	User enters expense details	User Input	Expense Report	Expense Database
Level 1	Detailed process for expense entry	Add/Update Expense	Expense Form Data	Stored Expense Record	Family Expense Table
Level 2	Data processing for reporting	Calculate totals, generate graphs	Stored Expense Data	Monthly Report	Dashboard Storage

User Stories:

A User Story is a short, simple description of a feature told from the perspective of the end user. It usually follows the format:

👉 “As a [user], I want [goal], so that [reason].”

In this project, user stories describe what the user expects the ServiceNow expense management system to do (e.g., add expenses, view summaries, receive alerts).

B. User Stories Template

User Story ID	As a (Role)	I want to (Goal)	So that (Reason)	Priority	Acceptance Criteria
US-01	Family Member	Record my daily expenses	I can track spending habits	High	Expense successfully added to database
US-02	User	Categorize expenses	I can view total spending by category	High	Expenses appear under correct categories
US-03	User	View monthly report	I can monitor family budget	Medium	Monthly report displays accurate totals
US-04	User	Export my data	I can save a copy for future use	Low	Downloadable PDF or Excel file generated
US-05	Admin	Manage user accounts	To secure data access	Medium	Only authorized users can log in

Calculating Family Expenses using ServiceNow

