Project Design Phase-II

Data Flow Diagram & User Stories

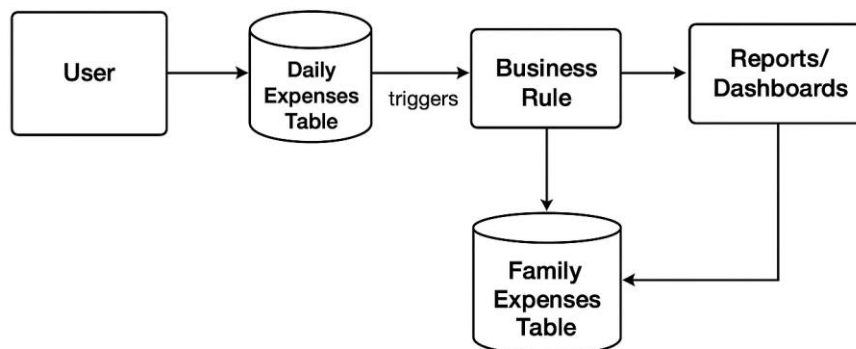| Date	2 November 2025
Team ID	NM2025TMID05198
Project Name	Calculating Family Expenses using ServiceNow
Maximum Marks	4 Marks

Dataflow :

In this project, the DFD illustrates how **daily expense data** flows from the user into the system, is processed by the **Business Rule**, and finally updates the **Family Expenses table** for summarized results.

This process ensures that each daily expense entry automatically contributes to an accurate monthly total, providing real-time financial tracking and organization.

Dataflow Diagram:

- **User** → enters data → **Daily Expenses Form/Table**

- **Daily Expenses Table** → triggers → **Business Rule**

- **Business Rule** → updates → **Family Expenses Table**

- **Family Expenses Table** → displays → **Reports/Dashboards**

User Stories :

User Type	Functional Requirement (Epic)	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
Family Member (User)	Record Daily Expenses	**USN-1**	As a user, I want to enter daily expenses with details like date, amount, and comments.	System should allow adding new daily expense records easily.	High	Sprint-1
System (Automation)	Auto Calculation	**USN-2**	As the system, I must calculate and update the total amount automatically when a new expense is added.	Total in Family Expenses should update automatically after each entry.	High	Sprint-1
System (Validation)	Data Relationship Maintenance	**USN-3**	As the system, I must link each Daily Expense entry with the correct Family Expense record based on date.	Family Expenses table should reflect correct totals for the same date.	High	Sprint-1
User (Viewer)	View Summaries	**USN-4**	As a user, I want to view my monthly expense summaries and totals in a dashboard.	Dashboard should show accurate total and breakdown of expenses.	Medium	Sprint-2
System (Reporting)	Generate Reports	**USN-5**	As the system, I want to generate downloadable reports of monthly and daily expenses.	Reports should display correct data and be exportable in common formats.	Medium	Sprint-2