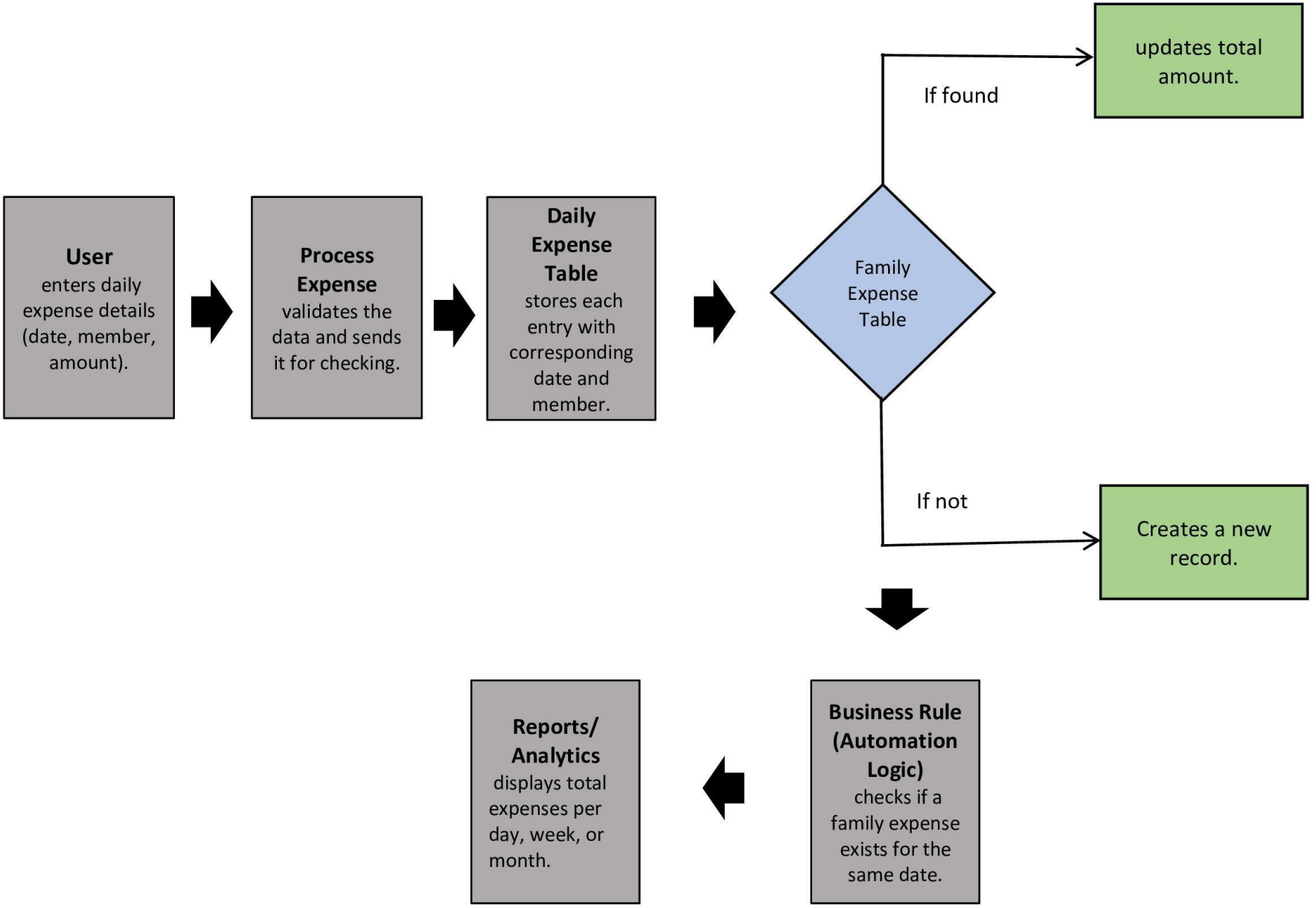
Project Design Phase-II
Data Flow Diagram & User Stories

Date	02 NOV 2025
Team ID	NM2025TMID03531
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) visually represents how expense data flows within the system. It shows how daily expense inputs are processed and consolidated into the family expense table, maintaining a synchronized financial record.

In the project “Calculating Family Expenses using ServiceNow”, the DFD illustrates how users input daily expenses, how the system checks for an existing family expense on the same date, and how totals are updated or created automatically.


User
enters daily expense details (date, member, amount).
Process Expense
validates the data and sends it for checking.
Daily Expense Table
stores each entry with corresponding date and member.
Family Expense Table
If found
updates total amount.
If not
Creates a new record.
Business Rule (Automation Logic)
checks if a family expense exists for the same date.
Reports/ Analytics
displays total expenses per day, week, or month.

User Stories:

User stories define what different users need from the system in simple, goal-focused language. They ensure that expense tracking and updating happen seamlessly and accurately.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
User	Expense Entry	USN-1	As a user, I want to add daily expenses easily with date and amount details.	System should accept and store daily expense data successfully.	High	Sprint-1
System (Business Rule)	Expense Linking	USN-2	As a system, I must check if a family expense record exists for the same date.	The system should add to an existing record or create a new one automatically.	High	Sprint-1
User	Reporting	USN-3	As a user, I want to view a summary of daily and total family expenses.	System should generate accurate reports for any date range.	Medium	Sprint-2