

Project Design Phase-II

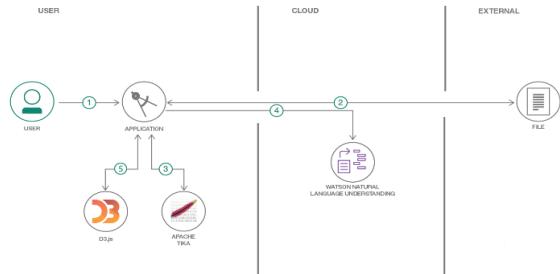
Data Flow Diagram & User Stories

Date	17 February 2026
Team ID	LTVIP2026TMIDS67078
Project Name	Calculating Family Expenses using ServiceNow
Maximum Marks	4 Marks

Data Flow Diagrams:

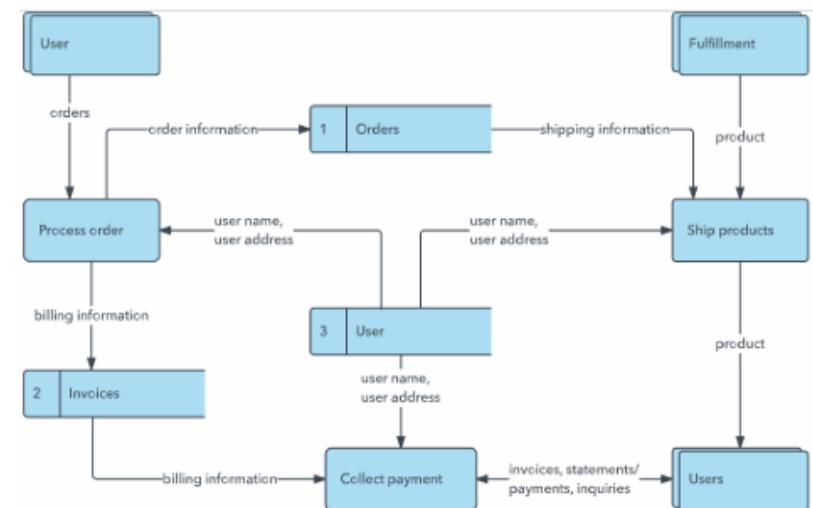
Example: (Simplified)

Flow

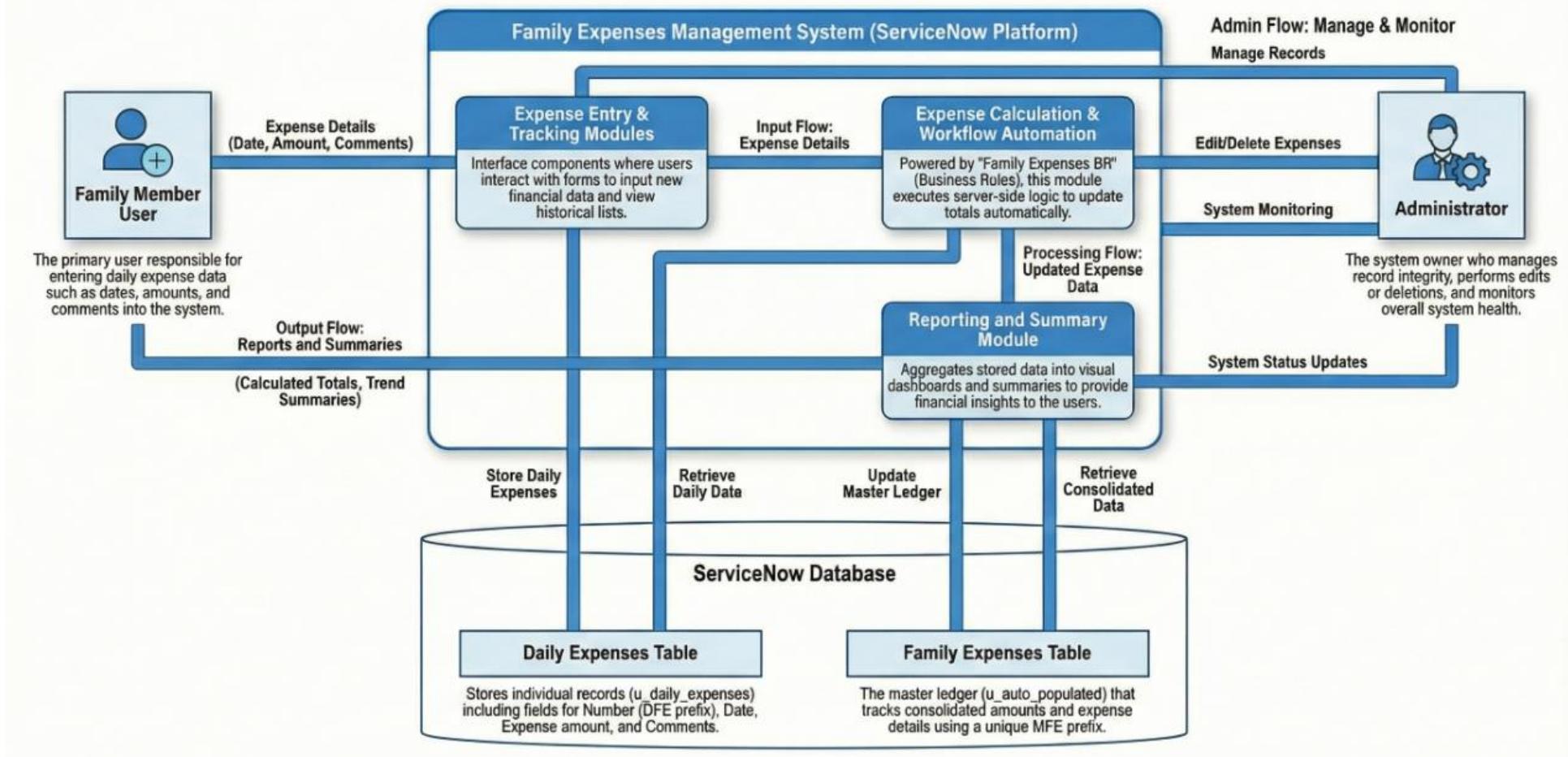


1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

Example: DFD Level 0 (Industry Standard)



Data Flow Diagram — Calculating Family Expenses using ServiceNow



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Family Member)	Expense Management	USN-1	As a user, I can add daily expenses with date, amount, and details	Expense record is saved successfully	High	Sprint-1
Customer (Family Member)	Expense Management	USN-2	As a user, I can view all my expenses in the system	Expense list is displayed correctly	High	Sprint-1
Customer (Family Member)	Expense Tracking	USN-3	As a user, I can see total expenses calculated automatically	Total amount updates when new expense is added	High	Sprint-1
Customer (Family Member)	Expense Tracking	USN-4	As a user, I can view expenses grouped by date	Expenses are grouped correctly	Medium	Sprint-2
Customer (Family Member)	Reporting	USN-5	As a user, I can check expense details summary	Summary is visible with correct data	Medium	Sprint-2
Administrator	System Management	USN-6	As an admin, I can manage expense records	Admin can create, edit, delete records	High	Sprint-1