

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	10 February 2026
Team ID	LTVIP2026TMIDS56419
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

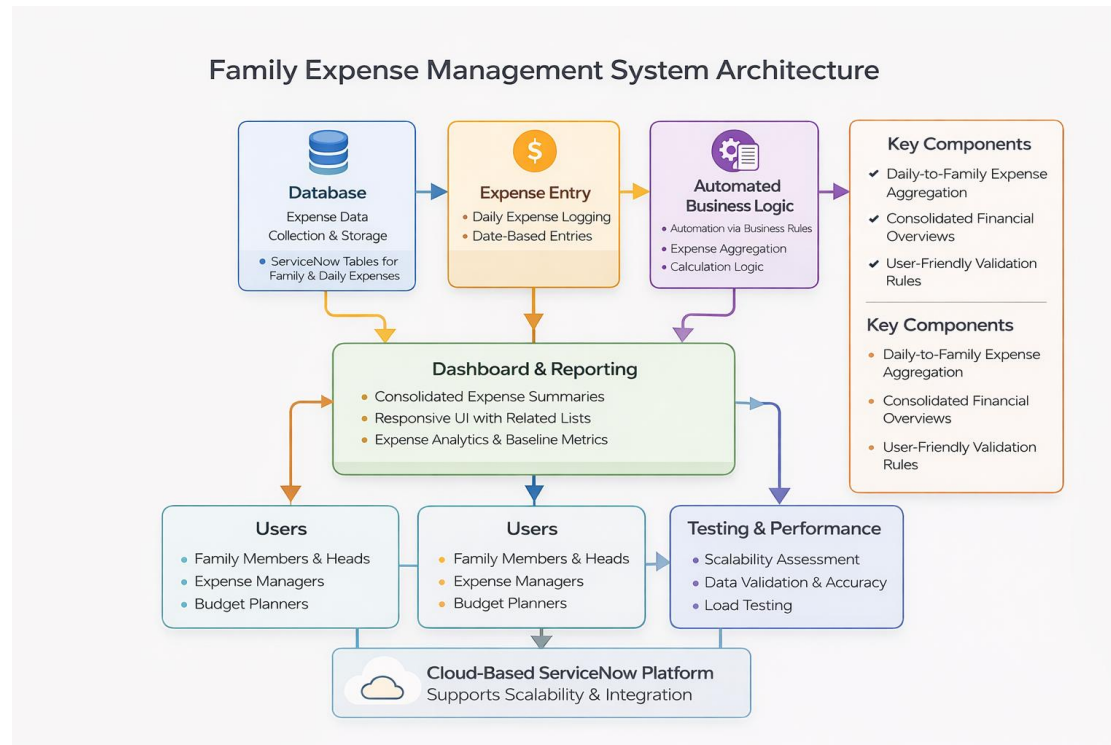


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web-based forms and lists for entering, viewing and managing family and daily expenses	ServiceNow UI (Forms, Lists, Related Lists)
2.	Application Logic-1	Expense data validation, auto-numbering, and table-level processing	ServiceNow Table Configuration, Field Attributes
3.	Application Logic-2	Automated aggregation of daily expenses into family-level records	ServiceNow Business Rules (Server-side scripting)
4.	Workflow / Relationship Logic	Logical linking of daily expenses with family expenses for consolidated views	ServiceNow Table Relationships & Related Lists
5.	Data Source	Structured expense data entered by users	ServiceNow Custom Tables (Family Expenses, Daily Expenses)
6.	File Storage	Secure storage and management of expense records	ServiceNow Cloud Database

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The solution does not rely on open-source frameworks; it is built using native ServiceNow platform features.	ServiceNow Platform
2.	Security Implementations	Role-based access control ensures that only authorized users can create, view, or modify expense records. User actions are logged for accountability	ServiceNow Security & Access Control
3.	Scalable Architecture	The cloud-based ServiceNow architecture supports scalability, allowing the system to handle increasing numbers of users and expense records without performance issues.	ServiceNow Cloud
4.	Availability	The application is accessible at all times through the ServiceNow instance, enabling continuous expense tracking and review.	ServiceNow Platform
5.	Performance	Optimized form loading and efficient business rule execution ensure smooth performance even as data volume grows.	ServiceNow Platform