Project Design Phase
Solution Architecture

Date	10 February 2026
Team ID	LTVIP2026TMIDS57513
Project Name	**calculating family expenses using service now**
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture is designed to provide a centralized, secure, and scalable platform for managing and analyzing family expenses. It enables users to record expenses through a web or mobile interface, processes data using automated business rules, stores information securely, and generates real-time dashboards and reports for better financial decision-making. Its goals are to:

- ➢ **User Access Layer:** Family members and admins access the system through a secure web/mobile interface for expense entry and monitoring.
- ➢ **Application Layer:** Core modules handle expense entry, automation rules, calculations, and report generation within the platform.
- ➢ **Data Layer:** All expense data is stored in a centralized database with backup, audit logs, and data security controls.
- ➢ **Integration & Reporting Layer:** Integrates with external tools or bank APIs and provides visual dashboards, alerts, and notifications for insights.

Solution Architecture Diagram:

Family Expense Management System - Solution Architecture