

Project Design Phase
Solution Architecture

Date	26 -052025
Team ID	LTVIP2025TMID59352
Project Name	ShopSmart:Your digital grocery store experience
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture for **ShopSmart** ensures a robust, scalable, and user-centric platform that streamlines the grocery shopping experience for customers, sellers, and administrators. The architecture emphasizes intuitive UI/UX design, secure and encrypted transactions, modular backend services, and real-time data handling to deliver a seamless and trustworthy grocery eCommerce platform.

- • Smooth product browsing, filtering, and cart management for customers
- • End-to-end order lifecycle management for sellers and buyers
- • Scalable role-based user authentication and access control
- • Secure and encrypted checkout and transaction handling
- • Centralized dashboard for admin monitoring and issue resolution
- • Modular microservice-ready backend architecture for future growth

Example - Solution Architecture Diagram:

Solution Architecture

Online Complaint Registration and Management System

