**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:**

