# Project Design Phase II

## Solution Requirements (Functional & Non-functional)

**Date:** 20 JULY 2025
**Team ID:** LTVIP2025TMID48243
**Project Name:** ShopMart

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## Functional Requirements

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---|---|---|
| FR-1 | User Registration | - Register via Email/Password- Sign in with Google- Sign in with Phone OTP |
| FR-2 | Product Browsing | - Browse homepage- Apply filters and search- View product details |
| FR-3 | Shopping Cart | - Add to cart- Update quantity- Remove items |
| FR-4 | Checkout & Payment | - Proceed to checkout- Select address & payment- Confirm and pay |
| FR-5 | Order Tracking | - View orders in dashboard- Track order status- Cancel order if needed |
| FR-6 | Feedback & Review | - Leave product reviews- Rate orders- Report issues |
| FR-7 | Admin Management | - Add/edit/delete products- View customer orders- Manage user accounts |

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# Non-Functional Requirements

| NFR No. | Non-Functional Requirement | Description |
| --- | --- | --- |
| NFR-1 | Usability | The UI is intuitive and mobile-friendly for a seamless shopping experience. |
| NFR-2 | Security | All data transactions use HTTPS, and user passwords are securely hashed. |
| NFR-3 | Reliability | Orders, payments, and sessions are logged reliably to prevent data loss. |
| NFR-4 | Performance | Product pages load under 2 seconds, and search is optimized for speed. |
| NFR-5 | Availability | The application runs on a cloud platform with minimal downtime. |
| NFR-6 | Scalability | Built with scalable APIs and modular architecture to support more users and sellers. |