

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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|---------------|---------------------------------------|
| Date | 16 June 2025 |
| Team ID | LTVIP2025TMID58635 |
| Project Name | ShopSmart - eCommerce Grocery Web app |
| Maximum Marks | 4 Marks |

Functional Requirements

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | User Registration | - Registration through Form- Registration through Gmail- Registration through LinkedIn |
| FR-2 | User Confirmation | - Confirmation via Email- Confirmation via OTP |
| FR-3 | Shopping Cart & Wishlist | - Add product to cart- Remove product from cart- Add product to wishlist- Remove product from wishlist |
| FR-4 | Admin Dashboard | - Add new product- Edit product details- Delete product- View user orders |

🔍 Non-functional Requirements

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | The application should have an intuitive and user-friendly interface that is easy to navigate on both desktop and mobile devices. |
| NFR-2 | Security | Secure data transmission using HTTPS, encrypted passwords, and JWT-based authentication. |
| NFR-3 | Reliability | The system should function consistently and handle expected user and admin operations without failure. |
| NFR-4 | Performance | Pages and API calls should load within acceptable response times to ensure a smooth user experience. |
| NFR-5 | Availability | The application should be available at least 99% of the time outside planned maintenance. |
| NFR-6 | Scalability | The system should support scaling to accommodate growing numbers of users and products. |

