# Project Design Phase-II

## Solution Requirements (Functional & Non-functional)

Team Details:

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| Team ID | LTVIP2025TMID20429 |
| Project Name | ShopEZ: One Stop Shop For Online Purchases |
| Date | 19 July 2025 |
| Maximum Marks | 4 Marks |

## Functional Requirements:

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| 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 | Product Browsing & Filtering | View products Filter by category, price, etc. Search products |
| FR-4 | Shopping Cart & Checkout | Add to cart Remove from cart Checkout Address & Payment input |
| FR-5 | Order Management | Order confirmation Order tracking View past orders |
| FR-6 | Admin Dashboard | Add/Edit/Delete products View users and orders |

## Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

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| --- | --- |
| NFR No. | Description |
| NFR-1 | Usability: Intuitive UI/UX for users and admin |
| NFR-2 | Security: Password encryption, JWT authentication, secure API calls |
| NFR-3 | Reliability: Consistent performance under load, proper error handling |
| NFR-4 | Performance: Fast API response time, optimized DB queries |
| NFR-5 | Availability: Application is available 24/7 with minimal downtime |
| NFR-6 | Scalability: Easily extendable to handle more users/products |