

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Team Details:

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

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
<b>FR-1</b>	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
<b>FR-2</b>	User Confirmation	Confirmation via Email Confirmation via OTP
<b>FR-3</b>	Product Browsing & Filtering	View products Filter by category, price, etc. Search products
<b>FR-4</b>	Shopping Cart & Checkout	Add to cart Remove from cart Checkout Address & Payment input
<b>FR-5</b>	Order Management	Order confirmation Order tracking View past orders
<b>FR-6</b>	Admin Dashboard	Add/Edit/Delete products View users and orders

#### Non-functional Requirements:

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

NFR No.	Description
<b>NFR-1</b>	Usability: Intuitive UI/UX for users and admin

<b>NFR-2</b>	Security: Password encryption, JWT authentication, secure API calls
<b>NFR-3</b>	Reliability: Consistent performance under load, proper error handling
<b>NFR-4</b>	Performance: Fast API response time, optimized DB queries
<b>NFR-5</b>	Availability: Application is available 24/7 with minimal downtime
<b>NFR-6</b>	Scalability: Easily extendable to handle more users/products