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

Date	31 January 2026
Team ID	LTVIP2026TMIDS42166
Project Name	ShopEZ : One-Stop Shop for Online Purchases
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through form (Name, Email, Password) Login using Email & Password Role selection (User/Admin)
FR-2	User Confirmation	JWT-based authentication Protected routes for admin Logout functionality
FR-3	Product Management	View product list Search and filter products View product details
FR-4	Cart Management	Add to cart Remove from cart Update quantity
FR-5	Order Processing	Place order Enter shipping details Select payment method Order confirmation
FR-6	Admin Dashboard	Add new product Edit/Delete product View all orders Manage users
FR-7	Order Tracking	View order history Track order status (Pending/Shipped/Delivered)

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system should have a simple, intuitive, and responsive user interface.
NFR-2	**Security**	Secure authentication using JWT, encrypted passwords, and protected admin routes.
NFR-3	**Reliability**	The system should handle multiple user requests without crashes or data loss.
NFR-4	**Performance**	Pages should load within 2–3 seconds; optimized database queries.
NFR-5	**Availability**	The platform should be accessible 24/7 with minimal downtime.
NFR-6	**Scalability**	The system should support increasing users, products, and transactions efficiently.