

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

<b>Date</b>	<b>18 February 2026S</b>
<b>Team ID</b>	<b>LTVIP2026TMIDS24270</b>
<b>Project Name</b>	<b>ShopEZ: One-Stop Shop for Online Purchases</b>
<b>Maximum Marks</b>	<b>4 Marks</b>

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

**Functional Requirements – ShopSmart: Your Digital Grocery Store**

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Authentication	Sign up, Login, Logout, Password Reset  JWT token-based secure access
FR-2	Product & Shop Discovery	View featured and regular grocery shops  Browse categories, search and filter products (by price, brand, etc.)
FR-3	Cart & Order Management	Add/remove items to/from cart  Place orders, view cart summary, and track order status
FR-4	Shop Owner Dashboard	Shop login to manage inventory and product listings  Update stock, prices, and order fulfillment status
FR-5	Admin Dashboard	View and manage all shops and customers  Promote stores, manage categories, approve new shop registrations
FR-6	Order History & Reviews	Customers can view past orders  Leave reviews/ratings for shops and products (optional)

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**Non-Functional Requirements – ShopSmart**

<b>NFR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	Usability	Clean, responsive UI for users, shop owners, and admin
NFR-2	Security	Secure HTTPS communication, JWT auth, and strict role-based access

NFR-3	Reliability	Ensure shopping cart, payments, and login/logout function without failure
NFR-4	Performance	Load homepage, product list, and cart under 2 seconds
NFR-5	Availability	Maintain 99.9% uptime for backend and frontend services
NFR-6	Scalability	Support future features like delivery integration, wallet, dynamic pricing