

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

Date	26 February 2026
Team ID	LTVIP2026TMIDS80402
Project Name	Order on you go
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)
		Password encryption using bcrypt
		Email & password validation
		Store user data in MongoDB
FR-2	User Login & Authentication	Login using email & password
		JWT token generation
		Token verification using middleware
		Role-based login (User / Admin)
FR-3	Admin Login	Predefined admin credentials (stored securely in backend)
		Admin authentication using JWT
		Admin authorization middleware
FR-4	Product Management (Admin)	Add new product
		Edit product details
		Delete product
		Manage stock quantity
		Upload product image URL
FR-5	Product Browsing (User)	View all products
		Filter products by category (sports, fashion, electronics, groceries, mobiles)
		Search products by name

		View product details page
<b>FR-6</b>	<b>Cart Management</b>	Add product to cart
		Update quantity
<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
		Remove item from cart
		Calculate total price
<b>FR-7</b>	<b>Order Management</b>	Place order
		Save order details in database
		View user order history
		Admin can view all orders
		Admin can update order status
<b>FR-8</b>	<b>Authorization &amp; Security</b>	Protect routes using JWT middleware
		Role-based access control
		Secure password storage
<b>FR-9</b>	<b>Reports &amp; Admin Control</b>	View order reports
		Export order data (if implemented)