

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	10-4-2025
Team ID	SWTID1743605259
Project Name	ShopEZ
Maximum Marks	4

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	<ul style="list-style-type: none">- Registration via form- Registration via Gmail- Registration via LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">- Email confirmation- OTP-based verification
FR-3	Product Browsing	<ul style="list-style-type: none">- Browse categories- View product details- Filter and search functionality
FR-4	Shopping Cart and Checkout	<ul style="list-style-type: none">- Add items to cart- Modify quantity- Remove items- Proceed to payment
FR-5	Address Management	<ul style="list-style-type: none">- Add new address- Edit or delete saved addresses
FR-6	Order Management (User Side)	<ul style="list-style-type: none">- View order history- Track current orders
FR-7	Seller Dashboard (Future Scope)	<ul style="list-style-type: none">- Add/edit/delete products- Manage inventory- View orders & sales
FR-8	Admin Dashboard	<ul style="list-style-type: none">- Manage users & sellers- Monitor all orders- View analytics- Handle complaints

Non-Functional Requirements:

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Responsive, intuitive UI for smooth navigation on all device types
NFR-2	Security	Protection of user data via encryption, JWT, OTP, and secure payment gateways
NFR-3	Reliability	System should handle failures gracefully and ensure transactional integrity
NFR-4	Performance	Backend and frontend optimized for speed, with API response times under 500ms
NFR-5	Availability	24/7 uptime supported through robust cloud infrastructure (Netlify, Render)
NFR-6	Scalability	Modular codebase and scalable cloud services to support future user growth