Solution Requirements (Functional & Non-functional)

Date	5 JULY 2024
Team ID	SWTID1720091047
Project Name	Project – E-Commerce Platform
Maximum 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
		Registration through Gmail
		Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	User Login	Login through Form
		Login through Gmail
		Login through Facebook
FR-4	User Profile Management	View Profile
		Edit Profile
		Change Password
FR-5	Product Browsing	View Product Categories
		View Products by Category
		Search Products
FR-6	Product Details	View Product Descriptions
		View Product Reviews
		View Product Ratings
FR-7	Shopping Cart	Add items to cart
		View Cart
		Update Cart
		Remove items from cart

FR-8	Order Placement	Proceed to checkout
		Enter shipping information
		Select Payment method
FR-9	Payment Processing	Payment via Credit/Debit card
		Payment via Digital Wallets
		Payment via PayPal
FR-10	Notifications	Order Confirmation Notification
		Order Status Update Notification
		Promotional Notifications
FR-11	Reviews and Ratings	Rate Orders
		Review Items
FR-12	Customer Support	Contact Support via Chat
		Contact Support via Email
FR-13	Admin Management	Manage Users
		Manage Menu Items
		View Reports and Analytics
FR-14	Order Tracking	• View order status • Track order in real-time
FR-15	Order History	• View past orders • Reorder from past orders
FR-16	Product Recommendations	• Personalized product recommendations • Frequently bough together suggestions

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 be user-friendly, with an intuitive interface that allows users to easily navigate and perform tasks such as registration, login, browsing menus, placing orders, and making payments. The design should accommodate users of varying technical proficiency and should be accessible on multiple devices, including smartphones, tablets, and desktops.
NFR-2	Security	Ensure confidentiality and integrity of user data, secure handling of payment information, implementation of encryption protocols, regular security audits, and compliance with data protection regulations. Robust user authentication to prevent unauthorized access.
NFR-3	Reliability	The system should function correctly under predefined conditions, handle user requests and transactions without failure, have error handling in place for unexpected issues, and maintain data integrity during system failures.
NFR-4	Performance	Optimal performance with quick response times for user interactions, page loading, and transaction processing within acceptable time limits. Regular performance monitoring to address any bottlenecks.
NFR-5	Availability	System availability 24/7 with minimal downtime, scheduled maintenance during off-peak hours communicated to users in advance. High availability ensured through redundancy and failover mechanisms for unexpected outages.