

REQUIREMENT GATHERING AND ANALYSIS PHASE

SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Date	6 th June 2024
Team ID	SWTID1720001202
Project Name	Shop-EZ (E – Commerce Website)
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	<u>User Registration</u>	Registration through Form
		Registration through Gmail
		Registration through LinkedIn
FR-2	<u>User Confirmation</u>	Confirmation via Email
		Confirmation via OTP
FR-3	<u>Order Management</u>	View order history
		Download invoices for past orders
		Track current orders
FR-4	<u>Delivery Scheduling</u>	Schedule deliveries for specific time slots
		Reschedule deliveries if needed
		Notify users of delivery status

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<u>Usability</u>	The system should provide an intuitive and user-friendly interface for both mobile and web users, incorporating responsive design principles with HTML, CSS, JavaScript, Bootstrap, and Tailwind CSS.
NFR-2	<u>Security</u>	The system must ensure secure user data handling with encryption for sensitive information, secure authentication methods, and protection against common vulnerabilities.
NFR-3	<u>Reliability</u>	The system should have high availability and be able to handle a large number of users simultaneously without crashing or significant slowdowns.
NFR-4	<u>Performance</u>	The website should load within 3 seconds on average, ensuring quick search results and fast page transitions to provide a seamless shopping experience.
NFR-5	<u>Availability</u>	The system must be available 99.9% of the

		time, ensuring minimal downtime and providing continuous access to users.
NFR-6	<u>Scalability</u>	The architecture should support horizontal scaling to handle increasing numbers of users and transactions as the business grows, leveraging the MERN stack's scalability features.