

Requirement Analysis Phase Documentation

Project: MERN Ecommerce

Date: 7 August 2025

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1. Introduction

Brief overview of the purpose of requirement analysis in the project lifecycle, emphasizing capturing both functional and non-functional requirements to guide development.

2. Functional Requirements

Detailed list of the functional requirements your project must fulfill, with subtasks or user stories, acceptance criteria, priority, and planned release or sprint.

Example structure based on your data flow and user stories files:

FR No.	Functional Requirement (Epic)	Description / Subtasks
FR-1	User Registration	Registration via form, Gmail, LinkedIn
FR-2	User Confirmation	Email confirmation, OTP confirmation

Include associated acceptance criteria and priority to convey importance and development order.

3. Non-functional Requirements

Define quality attributes and constraints the system should meet:

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Ease of use and user experience
NFR-2	Security	Authentication, data protection
NFR-3	Reliability	System uptime and fault tolerance
NFR-4	Performance	Response times, load handling
NFR-5	Availability	System accessibility and uptime
NFR-6	Scalability	Ability to handle growth in users

4. Data Flow Diagram (DFD)

Add a detailed DFD to visually represent how data flows through your ecommerce system, highlighting sources, destinations, processes, and storage.

5. User Stories

Present detailed user stories that describe system functionalities from user perspectives.
 Example user story format:

User Type	Functional Requirement	User Story Number	User Story Description	Acceptance Criteria	Priority	Release
Customer (Mobile)	Registration	USN-1	User registers using email and password	Access to dashboard after registering	High	Sprint-1

Expand for other user types and system functionalities.