Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	24 June 2025
Team ID	LTVIP2025TMID24654
Project Name	Shopez : one-stop shop for online purchases
Mentor Name	Dr Shaik Salma Begam
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 Registration using Gmail Registration using LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Fabric Image Upload & Management	Upload Fabric Images Manage Uploaded Images View Classification History
FR-4	Pattern Classification	Automatic Pattern Detection and Classification View Classification Results Download Report
FR-5	Admin Management	Manage User Accounts Manage Pattern Categories Review and Approve Uploaded Data View System Analytics

Non-functional Requirements

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The platform should be user-friendly for designers, manufacturers, and admins, with a clear, responsive UI.
NFR-2	Security	Protect user-uploaded images and data through encryption, secure authentication, and role-based authorization.
NFR-3	Reliability	The system should consistently process and classify fabric images accurately with minimal errors.
NFR-4	Performance	The classification process and results display should be fast even with high-resolution images and many users.
NFR-5	Availability	The service should be available 24/7 with minimal downtime to support global users.
NFR-6	Scalability	The system should support increasing numbers of users and images without compromising performance.