Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	27 june 2025
Team ID	LTVIP2025TMID32913
Project Name	Pattern Sense :Classifying Fabric Patterns Using Deep Learning
Max 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	Image Upload & Classification	Upload image from gallery or camera
		Process image via deep learning model
		Display predicted fabric pattern
FR-2	Prediction	View uploaded images and prediction and can predict another image

Non-functional Requirements

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Easy-to-use interface for mobile and web users
NFR-2	Security	User authentication, secure image storage, encrypted data
NFR-3	Reliability	Consistent output with high prediction accuracy
NFR-4	Performance	Fast image upload and classification

FR No.	Non-Functional Requirement	Description
NFR-5	Availability	System available with >99% uptime
NFR-6	Scalability	Able to handle more users and fabric patterns in future