Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	18 October 2022
Team ID	PNT2022TMID01254
Project Name	Project – AI BASED LOCALIZATION AND
	CLASSIFICATION OF SKIN DISEASE USING
	ERYTHEMA
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 through Gmail
		Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	Get User Input	Upload image as jpeg
		Upload image as png
FR-4	Image Pre-processing	Image of the skin disease is pre-processed to analyze
		image more efficiently and quickly
FR-5	Feature Extraction	After image pre-processing, Feature extraction is done
		to achieve better classification of the skin disease using
		erythema.
FR-6	Skin disease Type Prediction	After feature extraction , According to the given image
	with erythema	the type of skin disease is predicted.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application should have user friendly Graphics
		User Interface
NFR-2	Security	Only authorized users can view the data so that user
		data is secured
NFR-3	Reliability	User data should not be shared to any third-party
		applications.
NFR-4	Performance	The application should detect Erythema as fast as
		possible with more accuracy
NFR-5	Availability	The software should be available for multiple user
		access simultaneously.
NFR-6	Scalability	The application should be scalable to upload
		multiple images at a time for detection.