Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	19 October 2022
Team ID	PNT2022TMID40380
Project Name	Project - AI - based localization and classification of skin disease with 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 Mobile number
FR-2	**User Confirmation**	Confirmation via Email Confirmation via SMS
FR-3	**User profile**	User will provide their personal information and save in the application
FR-4	**Input**	User will capture the affected skin and upload the image
FR-5	**Analysis**	The image will be analyzed, preprocessed using yolo model by convolutional neural network
FR-6	**Output**	The yolo model will predict the skin disease
FR-7	**Provides description**	Display the detailed description of the type of skin disease with accuracy

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Used to classify and predict the type of skin disease
NFR-2	**Security**	The application is developed in a secure way such that no pseuodonymous user will be able to access the application
NFR-3	**Reliability**	The application works in a fine way in anytime to all users
NFR-4	**Performance**	Increase in accuracy will increase the performance of the application
NFR-5	**Availability**	Only authorized people can use this application
NFR-6	**Scalability**	To detect how much area is affected by skin disease with higher accuracy