Project Design Phase-I
Proposed Solution Template

Date	01 November 2022
Team ID	PNT2022TMID22236
Project Name	Project - AI-based localization and classification of skin disease with erythema
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Skin disease is one of the most common diseases in both developed and developing countries. People with skin conditions lead stressful lives because skin conditions have many negative effects on self-esteem and self-confidence.
2.	Idea / Solution description	Dermatologists benefit from the object detector YOLO. Medical imaging is essential to be able to make quick decisions about skin diseases. Medical Imaging is used to identify and treat diseases and to visualize internal structures covered by skin

3.	Novelty / Uniqueness	The novelty of this work is that the system automatically assists dermatologists by identifying disease from images or videos when patients need immediate attention during treatment.
4.	Social Impact / Customer Satisfaction	Let patients be sure of their own safety. We now have a classification model that can classify multiple diseases in a single image and is more accurate than the basic model trained without segmentation. In the dermatology area, the CAD is available with the improved performance of this.
5.	Business Model (Revenue Model)	This detector can provide accurate results, Easy to use. Patients can operate it independently and it's cheap.
6.	Scalability of the Solution	The model guarantees safety and accuracy of skin disease detection results. Patients or their families do not need to worry about treatment duration or recovery