

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID28486
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)	In both industrialized and developing nations, skin conditions rank among the most prevalent illnesses. People with skin conditions have stressful lives because the conditions have a variety of negative effects on their self-esteem and confidence.
2.	Idea / Solution description	The dermatologist benefits from the YOLO object detector. In order to make quick decisions about skin diseases, medical imaging is crucial. Medical imaging is used to identify and treat disease as well as to reveal internal structures that are covered by the skin.
3.	Novelty / Uniqueness	The work's novelty is that the system automatically assists the dermatologist by identifying the disease from images or videos when the patient needs immediate attention during treatment.
4.	Social Impact / Customer Satisfaction	Make the patient more assure about their safety. We now have a classification model that can classify multiple diseases in a single image and is more accurate than a baseline model trained without segmentation. The field of dermatology may be able to use CAD with this improved performance.
5.	Business Model (Revenue Model)	This detector can provide accurate results; it's simple to use; patients can operate it independently; and it's inexpensive.
6.	Scalability of the Solution	This model guarantees the security and precision of skin disease detection results. There is no need for the patient or their family to worry about the duration of treatment or recovery.