

# PROJECT DESIGN PHASE 1

## PROPOSED SOLUTION

Date	9 october2022
Team ID	PNT2022TMID47686
Project Name	PROJECT-AI based localization and classification of skin disease with erythema
Maximum Marks	2 Marks

### **PROPOSED SOLUTION:**

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statements (problem to be solved)	Skin disorders are among the most common diseases in both developing and industrialized countries. People living with skin disease experience stressful life as skin disease affects their confidence and self-esteem in so many different ways.
2.	Idea / Solution description	Create YOLO object detector helps the dermatologist. Medical imaging plays an important role for quick decision making in skin disease identification. Medical imaging

		is used for revealing internal structures hidden by the skin as well as to diagnose and treat disease.
3.	Novelty / uniqueness	The novelty of the work is that the system automatically helps the dermatologist by detecting the disease just by images or videos, when immediate attention is required for the patient during treatment.
4.	Social impact / Customer Satisfaction	Make the patient more assure about their safety. We have classification model which is more accurate than a baseline model trained without segmentation, while also being able to classify multiple diseases within a single image. This improved performance may be sufficient to use CAD in the field of dermatology.
5.	Business model (Revenue model)	<ul style="list-style-type: none"> <li>• Able to get accurate results</li> <li>• Easy to use</li> <li>• Patient can use this detector by their own</li> <li>• Low cost</li> </ul>
6.	Scalability of the solution	<ul style="list-style-type: none"> <li>• This model ensures the safety and accuracy of the</li> </ul>

		<p>detection results of skin disease.</p> <ul style="list-style-type: none"><li>• Patient and their family need not to be worried about the treating and healing time.</li></ul>
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