

**Project Design Phase-I**  
**Proposed Solution Template**

Date	08 October 2022
Team ID	PNT2022TMID16765
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)	<ul style="list-style-type: none"><li>Saran is working as a supervisor in chemical industry who needs to get rid from Itching because he wants to supervise his workers in a pleasant manner.</li></ul>
2.	Idea / Solution description	<p>The main idea of this problem is to classify the skin disease with erythema using</p> <ul style="list-style-type: none"><li>Neural network-based segmented model, Conventional Neural Network(CNN) model and Classification model using Support Vector Machines(SVM).</li></ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>To detect the Skin lesion in the dermis layer of the skin and SVM's accuracy in measuring Skin Illness.</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>The main purpose of this application is to make people awareness on their general health.</li><li>Physicians can use apps or softwares to take and store the medical history and ongoing treatment of the patient. It can also help detect red flags in advance to know if a patient needs to change/modify the treatment.</li></ul>

5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>• Health Care Sector(Hospitals).</li> <li>• Can generate revenue through direct customers.</li> <li>• Can collaborate with health care sector and generate revenue from their customers.</li> <li>• Contributing the corporate social responsibility by providing better solutions to the healthcare and to patients</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>• To detect how much area is affected by the skin disease with accuracy.</li> <li>• Classification of Skin disease will help doctors to diagnose the disease effectively.</li> </ul>