Project Design Phase-I
Proposed Solution Template

Team ID	PNT2022TMID41247
Project Name	AI based localization and classification of skin disease with erythema

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to besolved)	People suffering from Psoriasis also skin cancer rate is rapidly increasing over the last few decades. If skin diseases are not treated at an earlier stage, then it may lead to complications in the body including spreading of the infection. Skin tone and skin colour play an important role in skin disease detection. Colour and coarseness of skin are visually different. Automatic processing of such images for skin analysis requires quantitative discriminator to differentiate the diseases.
2.	Idea / Solution description	We are building a model which is used for the prevention and early detection of skin cancer, psoriasis. Basically, skin disease diagnosis depends on the different characteristics like colour, shape, texture etc. Here the person can capture the images of skin and then the image will be sent the trained model. The model analyses the image and detect whether the person is having skin disease or not.
3.	Novelty / Uniqueness	Easy access to all patients with social security during the test period. Diagnosing not just suspicious skin lesions for cancer risk, but hundreds of dermatology conditions.
4.	Social Impact / Customer Satisfaction	Effective way of finding out the disease in the early phase. Updated and reliable way of digital detection.
5.	Business Model (Revenue Model)	Used to identify potential for skin cancer recommended nearby dermatologists who can diagnose the patients properly. Can make revenue upon each successful booking placed by a patient. Users must subscribe with a monthly Charge to use the application.
6.	Scalability of the Solution	Accuracy in the early detection of skin disease using Artificial Intelligence. Time consumption is less compared to the regular ways. Used to diagnose skin disease at lower cost