**Project Design Phase-I**

**Proposed Solution**

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| **Date** | 23 September 2022 |
| **Team ID** | PNT2022TMID52767 |
| **Project Name** | AI-based localization and classification of skin disease with erythema |
| **Maximum Marks** | 2 Marks |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
|  | **Problem Statement (Problem to be solved)** | Elderly people sometimes tend to forget to take their medicine at the correct time or might forget which medicine they are supposed to take at that particular time. This makes it difficult for the doctors/caretakers to monitor the patients properly around the clock, which leads to inadequate treatments being provided to the elderly patients and could result in casualties. |
|  | **Idea / Solution description** | To design a skin classification system, an application built for the users, enabling them to identify the disease beforehand. The web application will classify the disease based on the images sent from devices like smartphones and laptops and will suggest remedies. The data will be stored in the IBM cloud is utilized to train the machine-learning model |
|  | **Novelty / Uniqueness** | The proposed model continuously monitors elderly patients and produces reports on their medicine intake data. It also uses this available data to alert the user using Voice Commands, ensuring an efficient reminder method. |
|  | **Social Impact / Customer Satisfaction** | Encourages easy diagnosis for users, thus ensuring them a good and healthy life. |
|  | **Business Model (Revenue Model)** | The proposed model makes it more reliable and user-friendly. This makes the model more feasible for widespread use in hospitals and homes for efficient disease diagnosis. |
|  | **Scalability of the Solution** | With efficient usage of the IBM cloud, this proposed model will be able to handle a large number of the image dataset. This will result in efficient training and development of the machine learning model. |