**Project Design Phase-I**

**Proposed Solution**

|  |  |
| --- | --- |
| **Date** | 18 October 2022 |
| **Team ID** | PNT2022TMID37911 |
| **Project Name** | Project- AI- based localization and classification of skin disease with erythema |
| **Maximum Marks** | 2 Marks |
| **Team Leader** | KARKUVEL PRABAKARAN P |
| **Team Members** | RANJITH KUMAR V, KISHORE S, MUTHUKUMAR S |
| **Team Mentor** | ANITA SOFIA LIZ DR |

**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)** | AI based localization and classification of skin disease with erythema.  To overcome the above problem we are building a model which is used for the prevention and early detection of skin cancer, psoriasis. |
| 2. | **Idea / Solution description** | The characteristic of the skin images is diversified so that it is a challenging job to devise an efficient and robust algorithm for automatic detection of skin disease and its severity. 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. |
| 3. | **Novelty / Uniqueness** | Image analysis and resources & Humans detected using “**Advanced Artificial intelligence”.** |
| 4. | **Social Impact /**  **Customer Satisfaction** | The project mainly provides the complete tool in order to solve the detection, localisation and detection of various skin diseases. So easily one can able to detect the diseases. So the customer satisfaction can easily can detect their defects and can take the upcoming treatments etc.  If skin diseases are not treated at an earlier stage, then it may lead to complications in the body including spreading of the infection from one individual to the other. |

|  |  |  |
| --- | --- | --- |
| 5. | **Business Model**  **(Revenue Model)** | Can make money through the Subscription process. Partnership with many laboratories and scientists around the world.  By giving additional information the users can get more benefits & information about the plan. |
| 6. | **Scalability of the Solution** | Image detection, searching samples in advanced Artificial Intelligence. It shows the information about the Skin defects and detection at anywhere with the access of internet. |