

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

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|---------------|--|
| Date          | 27 October 2022  |
| Team ID       | PNT2022TMID37261   |
| Project Name  | AI-Based Localization And Classification Of Skin Disease With Erythema |
| Maximum Marks | 4 Marks  |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task)   |
|--------|-------------------------------|--|
| FR-1   | User Registration             | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIN |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP   |
| FR-3   | User Profile                  | User will provide their medical details and save in the system                           |
| FR-4   | Input                         | User capture the skin which is affected or upload the taken image as jpeg format         |
| FR-5   | Output Analysis               | Image will be processed through YOLO and other trained model                             |
| FR-6   | Provides Description          | Gives detailed description of type of the skin disease affected                          |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| FR No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| NFR-1  | <b>Usability</b>           | Used to classify skin disease with erythema   |
| NFR-2  | <b>Security</b>            | It offers greater security and prevents unauthorized users to access the data                 |
| NFR-3  | <b>Reliability</b>         | Even with more users, there will be a good performance without failure                        |
| NFR-4  | <b>Performance</b>         | Performance is very high and it provides result with high accuracy and precision.             |
| NFR-5  | <b>Availability</b>        | With a good system, all authorised users can access and view the medical reports of patients. |
| NFR-6  | <b>Scalability</b>         | Performance will be good even with high user traffic.   |