Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID44903 |
| 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.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form Registration through Gmail Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  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.

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