**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 15 October 2022 |
| Team ID | PNT2022TMID26285 |
| Project Name | Project –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 mail Registration through Mobile Number |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | User Verification | Verification through CAPTCHA Verification through I’m not a robot. |
| FR-4 | User Authentication | Recognition of correct person Resending the code in  case of forgot password. |
| FR-5 | User skin detection | scanning user's skin using YOLO and and a proper scanner and finding the kind of erythema the patient is affected by. |
| FR-6 | User Submission | submitting the user details and scanned skin to the website to detect and provide the concerned solution. |

**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** | YOLO algorithm (You Only Look Once) is used to detect the user affected skin region -wise and precisely predict the kind of erythema the user is suffering from. |
| NFR-2 | **Security** | When we deal with medical grounds, we should provide more security services. There shouldn’t be any errors, lagging , base of data of a patient profile, while working on the website. |
| NFR-3 | **Reliability** | Reliability is said to be the measure of stability or consistency of skin results shown in the website.  performance one in the field of accuracy. |
| NFR-4 | **Performance** | The performance should be fast relaying. This prediction system should be made available in cloud as well for more efficiency. |

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| NFR-5 | **Availability** | The Availability of getting used to this website is through by accessing IBM cognos  Analytics and IBM cloud. |