**Project Design Phase-II**

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

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| Date | 16 November 2022 |
| Team ID | PNT2022TMID51374 |
| Project Name | A Gesture-based Tool for Sterile Browsing of Radiology Images |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Link ( HTML page ) |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | Upload images as input | Add image through Device or through Drive |
| FR-4 | Camera on | When the camera is on it recognize the hand gestures and return the required output. |

**Non-functional Requirements:**

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | This software will be easy to use for all users with minimal instructions. 100% of the languages on the graphical user interface (GUI) shall be intuitive and understandable by non-technical users. |
| NFR-2 | **Security** | The user of the system should be provided the surety that their account details are secure. The system will provide security against cross site request forgery. |
| NFR-3 | **Reliability** | This software will be operable in all lighting conditions. Regardless of the brightness level in user’s operating environment, the program shall always detect user’s hands. |
| NFR-4 | **Performance** | This software will minimize the number of calculations needed to perform image processing and hand gesture detection. Each captured video frame shall be processed fast. |
| NFR-5 | **Availability** | This software will be available to all operating system. While it is currently has a relatively limited role in direct patient care, its evolving role in complex clinical decision making is foreseeable. |
| NFR-6 | **Scalability** | This software will be enterprise scalability of AI development and deployment. |