Project Design Phase-II

Solution Requirements (Functional & Non-functional)

|  |  |
| --- | --- |
| Date | 17 October 2022 |
| Team ID | PNT2022TMID17537 |
| Project Name | A Gesture -based tool for sterile browsing of  Radiology Images |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Launching the model | Launch the trained CNN model from the cloud |
| FR-2 | Capturing the images | After capturing the images in camera we have to upload the images in the system |
| FR-3 | Performing gestures | After classifying, identify the correct image by the  gesture and it should perform the operation |
| FR-4 | Model rendering | After capturing the image the algorithm will start its processing task |
| FR-5 | Sterile browsing | The sterile browsing can be performed after identifying  the gestures |
| FR-6 | Visibility of images | After completing all the processes,a user can be able to  see the images |

# Non-functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | This system helps to have the control over images without having direct contact with system which  avoids the harmful rays and is ease of use |
| NFR-2 | **Security** | This system is protected and only authorized users  can access it |
| NFR-3 | **Reliability** | After installing the application,the system will predict the gesture and performs sterile browsing |
| NFR-4 | **Performance** | The system responds to a user in seconds and the  hardware and software works well |
| NFR-5 | **Availability** | It is accessible by authorised user from anywhere at  any time whenever there is an emergency |
| NFR-6 | **Scalability** | This system allows more number of users at a time and there is no loss can be identified |