# Project Design Phase-II

## Solution Requirements (Functional & Non-functional)

| Date | 03 October 2022 |
|---|---|
| Team ID | PNT2022TMID38566 |
| Project Name | A Gesture Based Tool For Sterile Browsing Of Radiology Images |
| 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 | 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 authorized users from anywhere at any time whenever there is an emergency. The system should have a longer uptime compared to negligible downtime. |
| NFR-6 | Scalability | One of the most difficult issues when designing hand gesture recognition system is to introduce new detectable gestures without high cost. |