

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

|               |   |
|---------------|---|
| Date          | 13 October 2022   |
| Team ID       | PNT2022TMID48857  |
| 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   | Image upload by the user      | Open the web page in google chrome and upload the image which is need to access. |
| FR-2   | open the image                | Once the image is uploaded, then the image is opened.                            |
| FR-3   | Turn on the camera            | The camera will turn on automatically and start to recognize the hand gesture.   |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| NFR-1  | <b>Usability</b>           | It is easy to use.  |
| NFR-2  | <b>Security</b>            | It identify the gesture action only when the hand is infront of the camera.   |
| NFR-3  | <b>Reliability</b>         | It can identify the hand gesture actions and response fastly.   |
| NFR-4  | <b>Performance</b>         | Rapid response to the gesture actions.  |
| NFR-5  | <b>Availability</b>        | It is used to reduce the possibility of spreading infections, avoid the delay and the focus of doctors on surgery is improved.  |
| NFR-6  | <b>Scalability</b>         | It can be used in any environment and able to identify the gesture actions in both bright and dim background. It can recognize the gesture action upto 5 meters distance between the camera and person. |