

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

Date	29 October 2022
Team ID	PNT2022TMID10905
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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Interface	The user-friendly interface, which helps to upload customised gesture images for easy Human Computer Interaction.
FR-4	Add image option	Add image through Device
FR-5	Gesture Operation	Dynamic navigation gestures are translated to commands based on their relative positions on the screen.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The Application is easy to access since there is less physical contact with the system.
NFR-2	<b>Security</b>	The user will have unique credentials to sign in their account and further they can secure with two factor authentication if needed.
NFR-3	<b>Reliability</b>	The gestures are identified accurately by the application in all lighting conditions using ML and AI algorithms.
NFR-4	<b>Performance</b>	The application recognizes the gesture in few milliseconds and the corresponding operation is performed.
NFR-5	<b>Availability</b>	The new Application, which is free to download, requires no special hardware, just a standard web camera.
NFR-6	<b>Scalability</b>	As the Application is cloud based, ample amount of user can use them.