

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

Team ID	PNT2022TMID37590
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	User Registration	Registration is done through the web application page to login.
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Authentication	It is through password authentication protocols.
FR-4	Hand detection	Filtering of hand from image capturing device.
FR-5	Model rendering	When the user uploads the gesture, the algorithm should start processing its task.
FR-6	Reporting	If any issues are faced by the customer or user, it will be directly notified to the developer.

**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 can be used for all users easily and also understandable for non- technical users to communicate with computer via hand sign.
NFR-2	<b>Security</b>	Accessible only in secure networks with administrative permissions, so there is less chance of security breach.
NFR-3	<b>Reliability</b>	Its operatable under all condition and also, we can communicate with computer.
NFR-4	<b>Performance</b>	The performance of the software is high because the speed and accuracy are high. It also upgrades the lifestyle of human beings controlling things via hand signs.
NFR-5	<b>Availability</b>	When the gesture is available then only the application works. This application is only available in surgery rooms.
NFR-6	<b>Scalability</b>	In future we can develop the vehicles that would being controlled by hand gestures.