

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

Date	08 October 2022
Team ID	PNT2022TMID34850
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Link (HTML page)
FR-2	User Confirmation	Confirmation via Email
FR-3	Upload images as input	Add image through Device or through Drive
FR-4	Camera on	When the camera is on it recognize the hand gestures and return the required output.

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This software will be easy to use for all users with minimal instructions. 100% of the languages on the graphical user interface (GUI) shall be intuitive and understandable by non-technical users.
NFR-2	Security	The user of the system should be provided the surety that their account details are secure. The system will provide security against cross site request forgery.
NFR-3	Reliability	This software will be operable in all lighting conditions. Regardless of the brightness level in user's operating environment, the program shall always detect user's hands.
NFR-4	Performance	This software will minimize the number of calculations needed to perform image processing and hand gesture detection. Each captured video frame shall be processed fast.
NFR-5	Availability	This software will be available to all operating system. While it is currently has a relatively limited role in direct patient care, its evolving role in complex clinical decision making is foreseeable.
NFR-6	Scalability	This software will be enterprise scalability of AI development and deployment.