

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

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Team ID : PNT2022TMID38259

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	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 authorised user from anywhere at any time whenever there is an emergency
NFR-6	Scalability	This system allows more number of users at a time and there is no loss can be identified