Project Design Phase-II

Date	31 October 2022
Team ID	PNT2022TMID20976
Project Name	**A Gesture -based tool for sterile browsing of Radiology Images**
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of this proposed solution.

FR No.	Functional Requirement	Sub Requirement
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 into backend flask (Python).
FR-3	Performing gestures	After classifying, identify the correct image by the gesture and it should perform the Data processing operation.
FR-4	Model rendering	After capturing the image, the DL-algorithm will start its processing task.
FR-5	Sterile browsing	The sterile browsing can be performed after identifying the gestures of hand sign.
FR-6	Visibility of images	After completing all the processes, a user can be able to see the images in the website application.

Non-functional Requirements:

Following are the non-functional requirements of this 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 infection caused by touching the device.
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 in an simple way and take less time.
NFR-4	**Performance**	The system responds to a user in low latency (ms) and the hardware and software works well.
NFR-5	**Availability**	It is accessible by authorized user from anywhere at any time whenever there is an emergency case.
NFR-6	**Scalability**	This system allows a greater number of users at a timeand there is no loss can be identified. By hosting an own server