Project Design Phase-II

Solution Requirements

(Functional and Non-Functional Requirements)

Date	04 October 2022
Team ID	PNT2022TMID08310
Project Name	A Gesture based tool for sterile browsing of radiology images
Maximum Marks	4 Marks

Functional Requirements

Functional Requirement defines What a product must do, what its features and functions are. They are product features or functions that developers must implement to enable users to accomplish their tasks. Generally, functional requirements describe system behaviour under specific conditions.

Following are the functional requirements of the proposed solution.

FR.NO	Functional requirements (Epic)	Sub Requirements (Story / Sub Task)
FR-1	Launching the model and algorithms	When the system stars it launches the trained CNN algorithm and models from the cloud
FR-2	Capturing the images	By using the webcams, the images were captured and uploaded to the system
FR-3	Identifying the gestures	After the images were uploaded the images, gesture was identified by the system
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 hand gestures
FR-6	Visibility of images	After completion of all these process the user can see the images and work with the images like zoom, blur, rotate and can change the pixels.

Non-Functional requirements

Non-Functional Requirements, not related to the system functionality rather define hoe the system should perform, Herem we will just briefly describe the most typical Non-functional requirements.

Following are the non-functional requirements of the proposed solution

NFR No.	Non-Functional Requirements	Requirement Description
NFR-1	Usability	This user interface is simple and easy to understand and access by the users and they can make control over the images without making the physical contacts with the systems.
NFR-2	Security	This system is protected and only authorized users can access it.
NFR-3	Reliability	The system have the lots of model data for the single hand gesture with the different angles, so here there is no chance for the failure of the system.
NFR-4	Performance	The Performance of the system is faster, it responds to the user in the fraction so second and process runs faster in the other end.
NFR-5	Availability	It can be access by the authorized user from anywhere and any time without any delay. And this system will be available at any situation.
NFR-6	Scalability	This system can give access and manage more number of users at time and there is no loss can be identified.