Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	13 October 2022
Team ID	PNT2022TMID42641
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

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
FR-2	User Confirmation	Confirmation via Email
FR-3	User Login	After Registration, Users can login to the web page.
FR-4	User Gestures	The user gestures are identified by capturing the gesture images using camera.
FR-5	Hand detection	Recognizing the hand gestures.
FR-6	Deployment in Cloud	The trained Deep Learning Model is deployed in cloud which is accessible everywhere.
FR-7	Reporting	If any issues are faced by the customer or user, it will be directly notified to the developer through customer support.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	User friendly as the instructions are displayed to the user when they enter the dashboard.
NFR-2	**Security**	The user can only login with their user ID and password. The data will be protected from the unauthorized user.
NFR-3	**Reliability**	The system is 95% reliable and expected to run without failure.
NFR-4	**Performance**	The application will respond within short duration provided with reasonable network speed. It will be able to respond to a user gesture in few milliseconds or 3 seconds.
NFR-5	**Availability**	The application is available in Surgery Rooms. However, it can be modified and used in different domains also.
NFR-6	**Scalability**	The application can be able to support the workload provided by the user to resize the image to their convenience and can be accessible to over thousands of concurrent users without any loss of performance.