Phase-II Project Design

Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID39878
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.

Functional Requirement (Epic) Sub Requirement (Story / Sub-Task)

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR No.1	User registration	Registration through email and through forms
FR No.2	User confirmation	Through OTP, pop up message.
FR No.3	Information about the application	Using analysis of hand gesture
FR No.3	Materials and method	Open source, python, numpy, Ibm cloud
FR No.4	Architecture	Higher level graphical user interface which manages image visualization
FR No.5	Algorithm	CNN
FR NO.6	Feature selection	Genetic algorithm

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Touch free monitor
NFR-2	Security	recognition system to provide a high-security and smart node in the application layer of Internet
NFR-3	Reliability	Gesture control approach
NFR-4	Performance	Recognizing gesture of the user correctly
NFR-5	Availability	The Applications is available for 24/7
NFR-6	Scalability	Access for everyone withy the application