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

Date	03 October 2022
Team ID	PNT2022TMID19926
Project Name	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	Image capturing through Canon 3D camera.	User's hand gestures are captured through canon camera which is pre-trained based on the model.
FR-2	Image displaying monitor	Based on the command or information from the camera the radiology image displaying monitor reacts.
FR-3	Gestix software tool	Dynamic navigation gestures are translated to commands based on their relative positions on the screen.
FR-4	Web page	In web page the images are uploaded and it recognizes based on the training with pre models.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This system is easy to use since the users will not move from their work place.
NFR-2	**Security**	It includes various biometric sensors for security and the biometric features are unique to individuals and there is little possibility that the reference pictures can be replaced or altered.
NFR-3	**Reliability**	Gestures are accurately recognized by using ML and AI algorithms which makes the system more reliable.
NFR-4	**Performance**	The system recognizes the images in a few milliseconds and the output is displayed.
NFR-5	**Availability**	The new program, which is available as a free download, requires no special hardware, just a standard webcam and the NPointer software.
NFR-6	**Scalability**	The proposed solution improves the experience of user by quality of the work and from deviating.