Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID17540
Project Name	Deep learning Fundus image analysis for early detection of Diabetic Retinopathy.
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 through phone number Registration through Gmail
FR-2	User Confirmation	Confirmation via OTP Confirmation via Mail
FR-3	Describe what the product does	Our project can detect early changes in your retina before you notice any difference in your eyesight.
FR-4	Focus on user requirements	Reduce the risk of visual loss and blindness in patients with retinal complications of diabetes.
FR-5	Usually defined by user	Fundus image obtained from patients.
FR-6	Define product features	To an advanced eye screening technology by which eye related diseases can be detected at an early stage.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Assuring that a software can effectively perform one or more defined functions.
NFR-2	**Security**	Permission granted only by the administrator of the system.

NFR-3	**Reliability**	If the system update fails or bugs in the code even though the system can roll back to its initial state.
NFR-4	**Performance**	The image loading process takes only 2 second. The performance of the model is meant to give speedy results for the patients.
NFR-5	**Availability**	Health care affordability, quality and accessibility is made easier using the device.
NFR-6	**Scalability**	The product must hold stable even when multiple users are using it at the same times.