

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

Date	12 November 2022
Team ID	PNT2022TMID20760
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	Using a phone number to register signing up with Gmail
FR-2	User Confirmation	Reassurance via OTP mail confirmation
FR-3	Describe what the product does	Before you notice any changes in your vision, our project can identify early retinal changes.
FR-4	Focus on user requirements	Reduce the chance of blindness and vision loss in diabetes patients who have retinal complications.
FR-5	Usually defined by the user	A patient's fundus image was obtained.
FR-6	Define product features	A cutting-edge technique for eye screening that allows for the early detection of diseases related to the eyes.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Confirming that a piece of software can successfully carry out one or more specific tasks.
NFR-2	Security	Only the system administrator may grant permission.
NFR-3	Reliability	Even though the system has the ability to roll back to its original state if a system update fails or there are bugs in the code.
NFR-4	Performance	The loading of an image just takes two seconds. The model's performance is intended to provide patients with quick results.
NFR-5	Availability	The gadget facilitates access, cost, and quality of healthcare.
NFR-6	Scalability	Even when several users are utilising the product simultaneously, it must remain reliable.