

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

Date	31 January 2026
Team ID	LTVIP2026TMIDS62212
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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3		
FR-4		

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system should provide a simple and user-friendly interface. Users must be able to upload images and view results easily without technical knowledge.
NFR-2	Security	The system must protect patient data and medical images using secure authentication and encrypted communication. Unauthorized access should be prevented.
NFR-3	Reliability	The system should function consistently without crashes or errors. It must provide accurate results and handle unexpected inputs properly.
NFR-4	Performance	The system should process images and generate predictions within a few seconds. It must efficiently use system resources for smooth operation.
NFR-5	Availability	The system should be accessible whenever users need it, with minimal downtime. It should maintain continuous operation.
NFR-6	Scalability	The system should handle increasing numbers of users and image uploads without performance issues. It must support future expansion and upgrades.