Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Team ID	PNT2022TMID05694
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
FR-2	**User Confirmation**	Confirmation via Email Confirmation via OTP
FR-3	**Input Images**	User can able to transfer images comfortably. The data should also be secured.
FR-4	**Image screening**	The image will be examine in depth. It establish that image is understandable.
FR-5	**Screening and diagnosis**	The diagnosis should be exact when differentiated with manual diagnosis process.
FR-6	**Diagnosis Report**	The report should be uncomplicated and in the form that patient can get medical guideness from Doctors using this report.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	User with basic knowledge of the medical condition and computer understanding can handle the system.
NFR-2	**Security**	Authorization permitted only by the administrator of the system.
NFR-3	**Reliability**	The model should be reliable. The result should be exact. Because misdiagnosis leads to blindness which cannot be reversed.
NFR-4	**Performance**	The model should detect and give the final output and it should not be time-consuming.
NFR-5	**Availability**	The model is made to be accessible at anytime and anywhere.
NFR-6	**Scalability**	The product must carry secure even when multiple users are using it at the same times.