

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

Date	17 October 2022
Team ID	PNT2022TMID24469
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	Input Images	User can able to upload images easily. The data should also be protected.
FR-2	Image screening	The image will be analysed well. It ensures that image is clear.
FR-3	Screening and diagnosis	The diagnosis should be accurate and reliable when compared with manual diagnosis process.
FR-4	Diagnosis Report	The report should be simple and in the format that patient can get medical assistance 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	This product is user friendly as it is very easy to use.
NFR-2	Security	This product must protect the user data.
NFR-3	Reliability	Product should be reliable. The result should be accurate Because misdiagnosis leads to blindness which cannot be reversed.
NFR-4	Performance	It should detect and give the final report. The process should not be time-consuming.
NFR-5	Availability	It can be made available across the earth using network connection. It can be made affordable for poor.
NFR-6	Scalability	It can be developed further to detect Diabetic macular Edema and glaucoma diseases.