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

Date	14 October 2022
Team ID	IBM-Project-23287-1659877068
Project Name	Deep Learning Fundus Image Analysis for Early Detection of Diabetic Retinopathy

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Upload image	A mixed approach of retinal cameras and slit lamps are used for screening and then the screened images are used for diagnosis.
FR-2	Get diagnosis	Diagnosis of the screened eye is done and the symptoms are noted.
FR-3	Collect data	Various studies are done and data from different technologies are collected for training the model.
FR-4	Create model	A model is created and trained using the data collected and screened eye and the trained model is sent for prediction.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The project developed must be easy to understand and must be usable by everyone.
NFR-2	**Security**	The project must store and secure all the user data details and their diagnosis results.
NFR-3	**Reliability**	The project must diagnose with decent amount of accuracy and approximate result.
NFR-4	**Performance**	The project must be able to give the diagnosis result in a short span of time.
NFR-5	**Availability**	The project must be available at any platform and ready to use.
NFR-6	**Scalability**	The project must hold stability when multiple users are using it at the same times or multiple data records are given for diagnosis without impacting the result.