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

Date	15 October 2022
Team ID	PNT2022TMID00056
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning
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	Data Collection	Input data through Form Store the data in database
FR-4	Data Analysis	Pre-process the data Check correct format of Input
FR-5	Prediction of disease	Evaluate the ML model with the data Store the result in database
FR-6	Provide output to the user	Display the prediction result in UI

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The Web UI is simple and easy for navigation and understanding even by common people with the help of known labels and descriptions.
NFR-2	**Security**	The users are required to register so that only verified users can use the application.
NFR-3	**Reliability**	The prediction result is expected to be accurate and free from error.
NFR-4	**Performance**	The webpage must load quickly even with slow internet connection. The ML model must predict the result with great accuracy and speed.
NFR-5	**Availability**	The website should be without any downtime for updates.
NFR-6	**Scalability**	This simple web application must have high scalability for supporting large number of users.