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

Team ID	PNT2022TMID49151
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning

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 are done through forms Registration are done through Gmail
FR-2	Data Collection	Input data through Form will be collected The data collected and stored in database
FR-3	Data Analysis	Check whether the input format is correct Pre-process the data
FR-4	Prediction of disease	Evaluate the ML model
FR-5	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 knowing the labels and description.
NFR-2	**Security**	The users are required to register so the verified users are only allowed to use the application.
NFR-3	**Reliability**	Accuracy and freedom from errors are expected in the predicted result
NFR-4	**Performance**	The webpage should be loaded quickly even when the internet connection is low. The ML Model should predict the result with great accuracy and speed.

| NFR-5 | **Availability** | The website should be free from any downtime for any updates. |
| NFR-6 | **Scalability** | This simple web application should have high scalability for supporting more/large number of users. |