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

Date	03 October 2022
Team ID	PNT2022TMID52837
Project Name	Project – 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 Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Feature Selection	Blood test, Glomerular Filtration Rate (GFR)
FR-4	Feature Vectorization	Training and testing dataset should be developed
FR-5	Prediction	Model predicts the CKD using machine learning algorithms
FR-6	Classifier	Send all the output to the classifier and produce the final output results
FR-7	Detection	The model should be capable to retrieve and display with correct accuracy.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The user should have full access to the model to test himself/herself
NFR-2	Security	The user information given to the model should be secure.
NFR-3	Reliability	The prediction of the model should be more trustworthy to the user.
NFR-4	Performance	The accuracy of the prediction must be maximum.
NFR-5	Availability	It must be easily and cheaply available to the user.
NFR-6	Scalability	The model should be able to handle large number of users at the same time.