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

Date	18 October 2022
Team ID	PNT2022TMID13778
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	Collect Dataset	ML depends heavily on Data, without Data, It is
		Impossible for an AI to learn. It is an actual Dataset used
		to train the model for performing various actions.
FR-4	Clean Dataset	Analyze the dataset
		Find the missing values, handle the missing values
		Split the data into independent and dependent variable
		Split the data into Train and Test
FR-5	Model Creation	The results showed that Random Forest Classifier Model
		better predicts Chronic Kidney Disease(CKD)
FR-6	Application Building	Building HTML pages
		Building Server-Side Script.

## **Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Used to understand the data and Analyse the data
NFR-2	Security	Securing Data in the Cloud
NFR-3	Reliability	Predefined Datasets
NFR-4	Performance	Analyse the dataset and the results are showed by Random Forest Classifier Model

NFR-5	Availability	It is user interactive Application
NFR-6	Scalability	It depends on Prediction of Data