Project Design Phase-I
Proposed Solution Template

Date	20 october 2022
Team ID	PNT2022TMID01191
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	People suffering with chronic disease require a medium that prevents the development of disease into a severe condition by early detecting with the help of machine learning and giving treatment in a very effective way.
2.	Idea / Solution description	➢ The initial stage is to perform pre-processing because some data sets are missing. Pre-processing involves cleaning of the dataset, scaling, and normalizing the numbers . ➢ The next step is to use dimensionality reduction to find the important features in the dataset and to remove that are not necessary. ➢ The next step is to use dimensionality reduction to find the important features in the dataset and to remove that are not necessary.
3.	Novelty / Uniqueness	An indicator of how well the kidney is working is the amount of a waste product called creatinine in the blood. By examining this data, early kidney disease can be identified by detecting deviations from the norm.
4.	Social Impact / Customer Satisfaction	The primary aim of this application is early prediction, and effective treatments may be able to prevent or delay the disease's progressing to an advanced state. That results you to stay healthy and fit.
5.	Business Model (Revenue Model)	From business point of view it can collaborate with the healthcare sector to generate revenue from patients who come in for kidney disease diagnosis.

6.	Scalability of the Solution	It can be used for a variety of illnesses in addition to chronic disorders. The accuracy of many models can be compared in order to determine which is best.