Project Design Phase-I
Proposed Solution

Date	16/10/2022
Team ID	PNT2022TMID21848
Project Name	Early Detection Of Chronic Kidney Disease Using Machine Learning
Maximum Marks	

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There can be various factors in chronic kidney disease malfunctions, the main motive of the project is to predict major medical problem treated and cured if they are treated in beginning stages but the people are not aware so we take various information test and analyze and predict using inputs
2.	Idea / Solution description	The project aims to predict the failure of kidney disease by taking informative testing and distinguish parameters that help us to severity of problems using Machine Learning thus improving productivity.
3.	Novelty / Uniqueness	Suggestion of taking medicine measures in the previous stages for the prediction while comparing with the values of health of various parameters that are involved in diagnosis.
4.	Social Impact / Customer Satisfaction	As the failure of a kidney is increasing in every year that can be reduced by previously predicted one could have an idea to take treatment in early stages and this could drastically reduce the loss of life. One could observe that the ecosystem surrounding people is seriously affected due to less awareness and various health issues. So the Customer can be indicated previously about the stage of chronic kidney disease level so treatment of action can be taken as soon as possible to save the life.
5.	Scalability of the Solution	The solution of the project "Machine learning based Early Detection Of Chronic Kidney Diseases" is flexible enough to meet the clients or customer requirements.

Feasibility of the project:

i). Economic feasibility: Since the project mainly focuses on software using sensor and no complicated hardware is required. Thus, the overall cost doesn't get too high.

ii). Technical feasibility: Python,python web frameworks,python flask and many machine learning algorithms are used to build the project and are used to achieve the desired result for the proposed model.

iii). Operational feasibility: The proposed solution solves the problem by well predicting the failure of chronic kidney in prior stages because of the frequent and periodic testing phases.

Proposed Model: