

**Project Design Phase-I**  
**Proposed Solution Template**

Date	22 September 2022
Team ID	PNT2022TMID18040
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)	Kidney disease avert the normal function of the kidney. It is one of the most critical health problem due to its increasing prevalence. Patient who suffer from chronic kidney diseases need to an advanced state with early detection and appropriate treatment. Machine learning has advanced to the point that it is now possible to look through patient medical Information and identify CKD in its early stage.
2.	Idea / Solution description	The idea of approaching the problem is by creating a suitable machine learning model which involves deep understanding of the data which needs to be collected from the real time, pre-processing by cleaning the dataset, along with scaling and normalization of values. Which makes it suitable for ML model training and prediction using different approach of model Creation depending on the dataset and output.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>• Best accuracy.</li><li>• Easy to use User Interface.</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>• Reduce cost.</li><li>• Chances of recovery is high.</li><li>• Effective.</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>• Collaborate with health care sectors to generate revenue.</li></ul>
6.	Scalability of the Solution	This application is capable of handling concurrent request and handle multiple requests.