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

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| Date | 10 october 2022 |
| Team ID | PNT2022TMID01511 |
| 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 the proposed solution template.

| S.No. | Parameter | Description |
|---|---|---|
| 1. | Problem Statement (Problem to be solved) | Chronic Kidney Disease(CKD) is a major concern for the global health care system. Now CKD is spreading at an alarming rate. Various efforts have been undertaken to advance early therapy to prevent the condition from progressing to chronic disease.<br>Machine learning has advanced to the point that it is now possible to look through patient medical information and identify chronic kidney disease in its early stage. |
| 2. | Idea / Solution description | The idea of approaching the problem is by creating a suitable machine learning model. It needs to collect from real time, handle the data. To predict the early onset of CKD.<br>Each algorithm's effectiveness is evaluated. This study developed an algorithm for predicting CKD at an early stage. |
| 3. | Novelty / Uniqueness | ● It is easy to use. User Interface(UI) is very user friendly and open to everyone.<br>● By examining the performance of different machine learning model techniques this data is early kidney disease can be identified by detecting deviation from the norm and giving the accuracy. |
| 4. | Social Impact / Customer Satisfaction | ● This main goal is to help to predict the early stage and appropriate treatments may be able to prevent it.<br>● If supposed to delay the disease's progression to an advanced stage. |
| 5. | Business Model (Revenue Model) | ● The charge for the actual prediction and development of immediate outcomes.<br>● The healthcare sector generates revenue from patients who come in for kidney disease diagnosis and recovery of a person. |

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| 6. | Scalability of the Solution | ● The machine learning model must be capable of handling concurrent request and handle multiple request .<br>● The dataset regular maintenance and changes in model with new features are included in it.<br>● The accuracy of many models can be compared in order to determine which is best. |