

Project Design Phase-I
Proposed Solution Template

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID44392 |
| Project Name | Project - Early Detection of Chronic Kidney Disease using Machine Learning |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | <ul style="list-style-type: none">● Chronic kidney disease (CKD) means your kidneys are damaged and can't filter blood the way they should. The main risk factors for developing kidney disease are diabetes, high blood pressure, heart disease, and a family history of kidney failure.● To detect CKD Earlier using machine learning. |
| 2. | Idea / Solution description | By taking the past medical history of patients from the dataset as inputs to predict CKD using machine learning concepts. |
| 3. | Novelty / Uniqueness | By analysing different predictions models of machine learning and finding the best of it based on its accuracy. |
| 4. | Social Impact / Customer Satisfaction | <ul style="list-style-type: none">● Helps in early diagnosis.● Rapid Recovery.● Reduction in CKD testing cost. |
| 5. | Business Model (Revenue Model) | <ul style="list-style-type: none">● One time investment for hospitals.● Commissions for every new features added to the model. |
| 6. | Scalability of the Solution | <ul style="list-style-type: none">● The ability of the model to grow to meet a company's business needs by adding new features. |