

Project Design Phase-I
Proposed Solution Template

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID30154 |
| Project Name | Project – Early Detection of Chronic Kidney Disease |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | <p>The problem statement is to predict the disease (Chronic Kidney Disease) in early stage also to know the accuracy of the disease affected. The solution will satisfy the following user requirements:</p> <ul style="list-style-type: none">• User friendly interface• To know the disease in earlier stage• Provide detailed report |
| 2. | Idea / Solution description | <p>If the disease is identified earlier it can be cured. To overcome this problem we going to develop a website and train a model with the previous records of affected patients (datasets will downloaded from UCI) and for the prediction we going to use the random forest algorithm(predicts with high accuracy with less training time). Based on the given input given by the user it makes a decision and generate a report.</p> |
| 3. | Novelty / Uniqueness | <p>Accurate in prediction. Future possibilities also predicted. Link for the doctors and hospitals will be provided. Detailed information about disease and measures to be taken will be provided.</p> |
| 4. | Social Impact / Customer Satisfaction | <p>The user need not to reach out to doctor often to make check up. Customer are satisfied in all aspects as the proposed solution is developed using multiple ML models.</p> |

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| 5. | Business Model (Revenue Model) | The result is generated based on subscriptions. The detailed report is generated and downloaded only for premium subscriptions. |
| 6. | Scalability of the Solution | Thus the report generated will be helpful for the patients as well as doctors to understand the patient clearly and to carry on with further treatments. |