Project Design Phase-I

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID22283 |
| Project Name | Early Detection of Chronic Kidney Disease. |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | 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. |
|  | Idea / Solution description | Medical tests that are taken for different purposes could contain valuable information concerning kidney diseases. The attributes of various medical tests are investigated to distinguish which features may contain helpful information about the disease and we make use of that features to build the model to predict the kidney disease. |
|  | Novelty / Uniqueness | By analysing different predictions models of machine learning and finding the best of it based on its accuracy. |
|  | Social Impact / Customer Satisfaction | Early diagnosis is made possible and the cost  for testing CKD gets reduced. |
|  | Business Model (Revenue Model) | Generating income through direct customers or collaborate with healthcare centres. |
|  | Scalability of the Solution | Deep Neural Network model that takes in all the features to detect whether the particular patient is affected by the chronic kidney disease or not, so accuracy is guaranteed. |