**PROJECT DESIGN PHASE-II**

**SOLUTION REQUIREMENTS**

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| Date | 11 October 2022 |
| Team ID | PNT2022TMID15455 |
| Project Name | Early Detection of Chronic Kidney Disease Using Machine Learning |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail. |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP  Confirmation via Phone number. |
| FR-3 | Capturing image | Capture the image of the kidney by using  Radioactive material and check the parameter of the scanned image. |
| FR-4 | Capturing image | Upload the image for the prediction of the disease in the kidney. |
| FR-5 | Kidney Identification | Identify the kidney and predict the disease in the kidney. |
| FR-6 | Image Description | Suggestion the best method for diagnosing the disease. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | Datasets of all the kidney is used to find the disease that present in the kidney. |
| NFR-2 | Security | The information belongs to the user and kidney are secured highly without vulnerable to the malicious users. |
| NFR-3 | Reliability | The dataset collected on the kidney should be important for predicting the disease in the kidney. |
| NFR-4 | Performance | Performance is based on the collected dataset which is used for disease prediction. |
| NFR-5 | Availability | It is available for all the user who tend to predict the disease in the kidney. |
| NFR-6 | Scalability | Increasing the analysis range for the prediction of disease in the kidney. |