**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 06 October 2022 |
| Team ID | PNT2022TMID48683 |
| 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 Google account  Registration through Google forms |
| FR-2 | User Confirmation | Confirmation via Google |
| FR-3 | User Medical Data | Amount of blood sugar, Blood urea, Coronary Disease, Pus cells, Petal edema, Diabetes mellitus, Red blood cells, Anemia |
| FR-4 | User Payment options | Gpay, Phonepe, Net banking for payments to the developer and product level basis of this project |
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**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** | The usability of the project is easy and user friendly environment to the user to interact with it |
| NFR-2 | **Security** | The data of users are well preserved and there is no any other third parties to gather the information of user |
| NFR-3 | **Reliability** | User can use the product across any platform in the market |
| NFR-4 | **Performance** | The performance of the machine learning model used to predict the disease is much accurate |
| NFR-5 | **Availability** | It can available on global level market and also in all medical devices and non-medical devices to predict the disease |
| NFR-6 | **Scalability** | In the future we can develop the model and user interface of our product to enhance the functionality and parameters. Medical parameters are added further to predict much more other disease |