Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID39690
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.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Gmail
FR-2	User Confirmation	Confirmation via Email
FR-3	User Login	User enter into platform using Email and Password that has been created in the registration
FR-4	Patient's Profile	User's details and already predicted results and the date of predictions will be displayed for the existing users
FR-5	Input kidney Disease parameters manually	User enter the parameter of disease for the occurrences of disease or not
FR-6	View Results of chronic kidney disease Risk	Then the application shows the users about the chances of getting the disease • Less chance predicted user's gets more information about the prevention measures. • High chance predicted user's gets more information about the best treatment to cure the disease. • No chance predicted user's gets more information about the regular diet routine methods to keep them healthy.
FR-7	Application gets confirmation about the regular updates	Regularly email will be sent to the user for predictions of disease.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The front end is designed in such a way that it provides an interface which allows the user to interact in a easy manner.
NFR-2	**Security**	The product protects the information and data collected from the user as specific login authentication is given to the user.
NFR-3	**Reliability**	This software predicts the disease more accurately and it is developed particularly with a large scale pre training and testing.
NFR-4	**Performance**	This software is being developed in such a way that the overall performance is optimized and the user can expect the result within a limited time within at most relevancy and correctness.
NFR-5	**Availability**	The complete product is broken up into many modules and well defined interfaces are developed to explore the benefits of flexibility of the product.
NFR-6	**Scalability**	The backend follows a well defined set of procedures and rules to compute and also rigorous testing is performed to confirm the corrects of the data.