

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

Date	03 October 2022
Team ID	PNT2022TMID07996
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 enters 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 prediction will be displayed for the existing users.
FR-5	Input Kidney Disease Parameters manually	User enters the parameters of disease for the occurrences of diseases or not.
FR-6	View Results of Chronic Kidney disease Risk	Then the application shows the users about the chances of getting the disease. <ul style="list-style-type: none">• 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 prediction 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 each 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 results 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.