

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

Date	15 October 2022
Team ID	PNT2022TMID16583
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 Login page
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Requirements	Create an account, see certain content, recalculate data using a particular algorithm, and perform other actions
FR-4	Business Requirements	An Application allowing patient to identify Chronic kidney disease in few minutes of time.
FR-5	User Authentication and Authentication	Challenges the user to validate credentials and Once the server receives a request with authorization, it can verify your credentials and grant you access to the resources.
FR-6	Disease prediction	User can predict the disease based on the valid inputs given by him/her

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Users can easily traverse an application's interface when it is useful, and applications with high usability allow users to quickly understand what a feature is and what it can achieve
NFR-2	Security	Safeguard sensitive information and secure databases to store patients' medical records
NFR-3	Reliability	You can check the percentage of the probability of failure, or failure rate, to determine the reliability of a system.
NFR-4	Performance	Reducing overall load time of prediction and interactivity with user
NFR-5	Availability	Indicates the user's ability to access the system at some point
NFR-6	Scalability	If user demand increases, it can be scaled up easily as we made everything dynamic

