

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

Date	15 October 2022
Team ID	PNT2022TMID51995
Project Name	Project – Early Detection Of Chronic Kidney Diseases 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 log in 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 Diseases in around the time of 15 minutes
FR-5	User Authentication	Challenges the user to validate credentials(through Password)
FR-6	User Authorization	Once the server receives the request with authorization, it can verify your credentials and grant you access to the resources.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The system designed is user-friendly
NFR-2	<b>Security</b>	The system is enforced with security mechanism to avoid data theft
NFR-3	<b>Reliability</b>	The system predicts the Chronic Kidney Diseases using the dataset and it produces proper results
NFR-4	<b>Performance</b>	It handles the visitors with a handsome response time, it is scalable and the underlying software is perfect.
NFR-5	<b>Availability</b>	The system is available or accessible by an authorized user whenever it is needed. It is not influenced by Denial of Service and Loss of Data Processing Capabilities
NFR-6	<b>Scalability</b>	The developed software model never downs the website due to an increase in website visitors.