

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

Date	03 October 2022
Team ID	PNT2022TMID08664
Project Name	Project – 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 Authentication	Authentication via Password
FR-4	User Input	The test vitals result is entered as input which further detects the possibility of patient having disease or not
FR-5	Business Requirements	Application allowing the patients/users to enter the data and it detects within a short span of time. Feasible and enhance the trustworthy of patients/user's data
FR-6	Result/Output	Model after got trained displays whether the patient has chronic kidney disease or not

**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 user interface will be developed in a simple and understandable way. Provides proper accuracy
NFR-2	<b>Security</b>	Permits the users who has proper identity credentials to access the application
NFR-3	<b>Reliability</b>	Accurate and Flawless Information
NFR-4	<b>Performance</b>	Able to respond within a minute
NFR-5	<b>Availability</b>	Free to use and can be accessible at any period of time if the credentials got verified
NFR-6	<b>Scalability</b>	Capacity to handle large number of traffic users