

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

Date	22 October 2022
Team ID	PNT2022TMID12535
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	Home Page	Icon and brief Description of what the application does
FR-2	Dashboard -CKD Prediction	Parameters required to make prediction must be entered
FR-3	Dashboard-Results	Generate Report with Results based on the prediction made using entered parameters

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The UI must be intuitive and should not require much technical knowledge to traverse through the application. This ensures all the features of the application are used to their best capability
NFR-2	Security	Access to sensitive information such as personal and medical details must be protected and stored in a

		secure database
NFR-3	Reliability	The accuracy of the prediction of the Machine Learning model should be sufficiently high so that the results obtained are trustworthy. The probability of failure or failure rate can be calculated to assess the reliability of the system
NFR-4	Performance	The ease of interactivity and reducing the load time of prediction/diagnosis can help with increased performance
NFR-5	Availability	The application can be accessed by users with an internet connection from anywhere at any time
NFR-6	Scalability	The website should be able to handle influx or reduced traffic at any given point with low latency