

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

Date	23 October 2022
Team ID	PNT2022TMID49652
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	Home page	Name of the web application. Switch to enter into prediction page.
FR-2	Prediction Page	Chronic kidney disease description.
FR-3	Test Vital Form	Information about Test Vitals required for prediction. Test Vitals should be waited for prediction.
FR-3	Result	If Positive –Test Result along with the information about what is to be done next will be displayed. If Negative – Test result along with the preventive measures to prevent them from getting chronic kidney disease will be displayed.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Even Illiterates and people with no understanding of computer/mobile should be able to use the product.
NFR-2	<b>Security</b>	Access permission for particular system information may be changed by systems data administration.
NFR-3	<b>Reliability</b>	The database update process must roll back all related updates when any updates fails.
NFR-4	<b>Performance</b>	The Home-page load time must be no more than 2 seconds for users that access the website using an LTE mobile connection.
NFR-5	<b>Availability</b>	New Model Deployment must not impact Home page , test page and result page availability and must not take longer than 1 hour.
NFR-6	<b>Scalability</b>	The website Traffic limit must be scalable enough to support 2000,000 users at a time.