

**Project Design Phase-II**  
**Requirement Analysis (Functional & Non-functional)**

Date	16 October 2022
Team ID	PNT2022TMID21848
Project Name	Early Detection of Chronic kidney Disease using Machine Learning
Maximum Marks	4 Marks

**Non-functional Requirements:**

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

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

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	Home Page	<ul style="list-style-type: none"><li>• Chronic Kidney disease description</li><li>• Information about Test Vitals required for prediction</li><li>• If new User, REGISTER</li><li>• If already exist, LOGIN</li></ul>
2	User Registration	<ul style="list-style-type: none"><li>• Enters Mail ID and other personal details required for Registering.</li></ul>
3	User Login	<ul style="list-style-type: none"><li>• Uses Mail ID and Password for login</li></ul>
4	Test Vitals Form	<ul style="list-style-type: none"><li>• Test Vitals should be entered for prediction</li></ul>
5	Result	<ul style="list-style-type: none"><li>• If Positive – Test Result along with the Information about what is to be done next will be displayed.</li><li>• If Negative – Test result along with preventive measures to prevent themselves from getting chronic kidney disease will be displayed.</li></ul>