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

Date	30/10/2022
Team ID	PNT2022TMID10811
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	• Chronic Kidney disease description • Information about Test Vitals required for prediction • If new User, **REGISTER** • If already exist, **SIGN IN**
FR-2	User Registration	• Enters Mail ID and other personal details required for Registering.
FR-3	User Login	• Uses Mail ID and Password for login
FR-4	Test Vitals Form	• Test Vitals should be entered for prediction
FR-5	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 preventive measures to prevent themselves 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	**Usability**	Even Illiterates and people with no understanding of computer/mobile should be able to use the product.
NFR-2	**Security**	Access permission for particular system information may be changed by systems data administration.
NFR-3	**Reliability**	The database update process must roll back all related updates when any updates fails.
NFR-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.
NFR-5	**Availability**	New Model Deployment must not impact Home page ,test page and result page availability and must not take longer than 1 hour.
NFR-6	**Scalability**	The website Traffic limit must be scalable enough to support 2000,000 users at a time.