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

Date	18 October 2022
Team ID	PNT2022TMID06735
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	User Upload	• User should be able to upload the data.
FR-6	Result	• If Positive – Test Result along with the Information about what is to be done next willbe displayed. • Negative – Test result along with preventive measures to prevent themselves from getting Chronic Kidney disease will be displayed
FR-6	User Solution	• Data report should be generated and delivered to user

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. Ease of use prerequisites can consider dialect boundaries and localization assignments. Effectiveness of use. Low seen workload. Simple and basic UI.
NFR-2	**Security**	Access permission for particular system information may be changed by systems data administration.So security will be more efficient.
NFR-3	**Reliability**	The database update process must roll back all related updates when any updates fails.All data's will be stored in a way that we can view it any time in future we need.
NFR-4	**Performance**	The front-page stack time must be no more than 2 seconds for clients that get to the site utilizing an VoLTE versatile associa
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. The rest of the pages that may experience problems must display a notification with a timer showing when the system is going to be up again.
NFR-6	**Scalability**	Ready to increment versatility by including memory, servers, or disk space. On the other hand, ready to compress information, utilize optimizing calculations.The website Traffic limit must be scalable enough tosupport 2000,000 users at a time.