

## Project Design Phase-II

### Requirement Analysis (Functional & Non-functional)

Date	24 October 2022
Team ID	PNT2022TMID37140
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	<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 , <b>REGISTER</b></li> <li>If Already exist, <b>SIGN IN</b></li> </ul>
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	<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>➤ Negative – Test result along with preventive measures to prevent themselves from getting Chronic Kidney disease will be displayed.</li> </ul>

**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. Ease of use prerequisites can consider dialect boundaries and localization assignments. Simple and basic UI.
NFR-2	<b>Security</b>	Access permission for particular system information may be changed by systems data administration. So security will be more efficient.
NFR-3	<b>Reliability</b>	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	<b>Performance</b>	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	<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. 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	<b>Scalability</b>	Ready to increment versatility by including memory, servers, or disk space. On the other hand, ready to compress information. The website Traffic limit must be scalable enough to support 2000,000 users at a time.