

**Solution Requirements (Functional & Non-functional)**

Date	03 October 2022
Team ID	PNT2022TMID22244
Project Name	Project – 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>Description for application including what the steps involved</li><li>Chronic kidney disease description including what are the test vitals need for prediction</li></ul>
FR-2	User Registration	<ul style="list-style-type: none"><li>If new user, <b>REGISTER</b></li><li>Enter Mail Id and Personal details required for Registering.</li></ul>
FR-3	User Login	<ul style="list-style-type: none"><li>If already have an account, <b>SIGN IN</b></li><li>Uses the mail Id and password for login</li></ul>
FR-4	Test Vitals form	<ul style="list-style-type: none"><li>Test vitals should be entered for prediction</li></ul>
FR-5	Result	<p>If <b>NEGATIVE</b>, Test result along with preventive measures to prevent themselves from getting Chronic Kidney Disease will be displayed.</p> <p>If <b>POSITIVE</b>, Test result along with information about what is to be done next will be displayed.</p>

### 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 understandin of computer or 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 5 seconds for users that access the website using an LTE mobile Connection and laptop.
NFR-5	<b>Availability</b>	New model deployment must not impact Home page, Registration page, Login 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 uses at a time.