

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	29 October 2022
Team ID	PNT2022TMID01511
Project Name	Project - Early Prediction 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 ,then <b>REGISTER</b></li><li>If Already exist, <b>SIGN IN</b></li></ul>
FR-2	User Registration	<ul style="list-style-type: none"><li>Registration through Form or Gmail and Enter the personal details for registration.</li></ul>
FR-3	User Confirmation	<ul style="list-style-type: none"><li>Confirmation via Email</li><li>Confirmation via OTP</li><li>Confirmation via phone</li></ul>
FR-4	User Sign up	<ul style="list-style-type: none"><li>Create User Name or Mail id and set password for Sign-up</li></ul>
FR-5	User Login	<ul style="list-style-type: none"><li>Enter User Name and password for login</li></ul>
FR-6	Test Vitals Form	<ul style="list-style-type: none"><li>Test vitals should be entered for prediction.</li></ul>
FR-7	Result	<ul style="list-style-type: none"><li>The test results and instructions for the next step will be provided for positive</li><li>The test results will be provided along with advice on how to avoid developing chronic kidney disease for negative.</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>	Our ML Model Will be Efficient, Effective, Satisfying and Consistent
NFR-2	<b>Security</b>	Provide Access Control Such As password & username Firewall Production.
NFR-3	<b>Reliability</b>	The database update process must roll back all related updates when any updates fail.
NFR-4	<b>Performance</b>	Reducing overall load time of prediction and interactivity with users.
NFR-5	<b>Availability</b>	It can be accessed in search Engine Through URL and indicates the user's ability to access the system at some point.
NFR-6	<b>Scalability</b>	It can stand up with many users and this application can be used anywhere as it is Portable (i.e. computer, laptop etc).