

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

Date	14 October 2022
Team ID	PNT2022TMID01260
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">Chronic Kidney disease descriptionInformation about Test Vitals required for predictionIf new User, REGISTERIf Already exist, SIGN IN
FR-2	User Registration	<ul style="list-style-type: none">Enters Mail ID and other personal details required for Registering.
FR-3	User Confirmation	<ul style="list-style-type: none">Conformation via emailConformation via OTP
FR-4	User Login	<ul style="list-style-type: none">Uses Mail ID and Password for login
FR-5	User Authentication	<ul style="list-style-type: none">Challenge the user to validate credentials(for example through password)
FR-6	Business Requirements	<ul style="list-style-type: none">An application allowing patient to identify Chronic kidney disease in around the time of 15 minutes.
FR-7	Test Vitals Form	<ul style="list-style-type: none">Test Vitals should be entered for prediction
FR-8	Result	<ul style="list-style-type: none">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 20,00,000 users at a time.