

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID50020
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	User Registration	1. Registration through Form 2. Registration through Gmail 3. Registration through LinkedIn.
FR-2	User Confirmation	1. Confirmation via Email 2. Confirmation via OTP
FR-3	Data Entry	1. Collect The data from the user 2. Fill the Form
FR-4	Analysing the Data	1. Analyse the data 2. Getting their results
FR-5	Machine Learning Algorithms	1. Decision Tree 2. Rainforest 3. Support Vector Machine 4. Artificial Neural Network
FR-6	Phases	1. Testing Phase 2. Training Phase

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ol style="list-style-type: none">1. Preventing loss of kidney disease.2. Delaying or avoiding progression to kidney failure.
NFR-2	Security	<ol style="list-style-type: none">1. Encrypt your data.2. Focus the hosting service measure3. Avoid security misconfigurations.
NFR-3	Reliability	Result should be 99.99% accurate.
NFR-4	Performance	Compare the data with symptoms to give results.
NFR-5	Availability	It access at any time.
NFR-6	Scalability	<ol style="list-style-type: none">1. Memory utilization.2. CPU usage.3. Network input/output.4. Disk input/output.