Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	10October 2022
Team ID	PNT2022TMID35483
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	Registration through Form Registration through Gmail Registration through Websites
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Requirements	Login with the registered credentials (username and password). If login credentials match then allow access to the software. If a login credentials does not match then deny access to the software.
FR-4	User Requirements	Display user data entry form to the user
FR-5	User Requirements	Receive data info from user. Data to be received are blood urea level, blood glucose random. These are numeric values.
FR-6	User Requirements	Receive data from user. Data to be selected by user are select anaemia, select coronary artery disease, select pus cell, select red blood cell level, select diabetes, select pedal edema.
FR-7	User Requirements	Allow user to click on predict button
FR-8	User Requirements	Display the final result of CKD or Not CKD to the user

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application software should be user friendly so many options should be selectable from drop down menu.
NFR-2	**Security**	Users are asked to register and only registered users are allowed to login with username and password.
NFR-3	**Reliability**	The software should be tested for same inputs for 20 times and check the if the output is same.
NFR-4	**Performance**	The system response should be immediate without any delay
NFR-5	**Availability**	Software should be available for access at all times. It should execute graceful degradation.
NFR-6	**Scalability**	The software can be used for predicting other chronic disease also just by changing the inputs taken from the user.