PROJECT DESIGN PHASE-2

SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Date	17 October 2022
Team ID	**PNT2022TMID24864**
Project Name	Detection of Parkinson's 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**	New users have to Register. Registered user will Login to access the account.
FR-2	**User Registration**	Registration – Through Email
FR-3	**User Confirmation**	Confirmation via Email with OTP
FR-4	**Login Page**	User can login through their Username and password
FR-5	**Test Inputs**	The user inputs the symptoms into the Machine Learning model.
FR-6	**Result**	Accurately, get the result as positive or negative with percentage affected in a person by the Parkinson's Disease.

NON-FUNCTIONAL REQUIREMENTS:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The users who have signed up for the web application will have access to all the resources present in that website (for e.g., tips to overcome the disease at an early stage).
NFR-2	**Security**	User information is protected for authenticated users.
NFR-3	**Reliability**	Since only authorized users have access to the contents of the page, the web application is reliable and authorized.
NFR-4	**Performance**	The web application makes use of HOG for image classification to quantify the image hence it gives accurate results.
NFR-5	**Availability**	The web application can be accessed 24/7 from anywhere when connected to the internet.
NFR-6	**Scalability**	The trained ML model can provide accurate results whenever the size of the dataset and the number of users is extended.