

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

Date	17 October 2022
Team ID	PNT2022TMID32832
Project Name	Detection of Parkinson's disease using ML
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 login to access.
FR-2	User Registration	Registration through Gmail
FR-3	User Confirmation	Confirmation via Email Confirmation via OTP
FR-4	Login Page	User's enter 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 authorised users have access to the contents of the page, the web application is reliable and authorised.
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 are extended.