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

Date	07 November 2022
Team ID	PNT2022TMID48809
Project Name	Detecting 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	▪ Description of Parkinson Disease, causes, symptoms and medications to be used.
FR-2	Test Vital Page-Uploading Image	▪ Uploading through a file input button ▪ Can input image file types like png,jpg,jpeg ▪ Input the required details that has been asked for
FR-3	Result/Prediction of disease	▪ If Positive – suggests to consult a doctor and to undergo treatment like deep brain stimulation, Leison Surgery, neural grafting or tissue transplants. ▪ If Negative – suggests preventive measures and symptoms. ▪ Important note is that the treatment may vary according to the individual.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	▪ Can be used by people of any age groups. ▪ Open source. ▪ Easily Accessible. ▪ lliterate people can also use efficiently.
NFR-2	**Security**	▪ Only the admin will be able to access the patient details so that the website will be more secured.
NFR-3	**Reliability**	▪ There is no possibility of hacking or misusing the data. ▪ No identity threat is possible ▪ Accuracy of prediction is very high when compared to the existing models since Classification, HOG, CNN makes it more reliable and responsive.

NFR-4	**Performance**	▪ Prediction results are obtained within seconds and the overall time is 3x times less when compared to the waiting time to get the results in medical centres or hospitals.
NFR-5	**Availability**	▪ The website can be accessible the entire day of 24 hrs. We had followed “Anytime, Anywhere accessible” policy.
NFR-6	**Scalability**	▪ Ability to provide proper medications, consultation, suggestions and results immediately. ▪ Able to access even from mobile phones that has internet connectivity