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

Date	10 October 2022
Team ID	PNT2022TMID27729
Project Name	Project- 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 requirements (Story/ Sub-Task
FR-1	User Registration	❖ Registration through Form ❖ Registration through Gmail ❖ Registration through LinkedIN
FR-2	User Configuration	❖ Confirmation via Email ❖ Confirmation via OTP
FR-3	User Interface	❖ Admin Login Form ❖ Graphical user interface for non-computer literate PD patients
FR-4	Database	❖ Gene4PD
FR-5	Operating System	❖ Windows 10
FR-6	Software	❖ Spyder ❖ Google collab
FR-7	Tools	❖ Web Browser
FR-8	Python Libraries	❖ Numpy, pandas, matplotlib, seaborn, sklearn,
FR-9	Detecting Parkinson's disease	❖ Identifying rare variants from PD patients using images such as Waves and Spiral
FR-10	Input File Format	❖ png
FR-11	Supported Browser	❖ Google Chrome ❖ Firefox ❖ Microsoft Edge
FR-12	Algorithm	❖ Logical Regression ❖ Random Forest Classifier

Non-Functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	❖ Easy-to-use
NFR-2	Security	❖ IBM Cloud offers Data security service which includes Data discovery, Data activity and encryption
NFR-3	Reliability	❖ Easy to use ❖ Portable ❖ Flexibility
NFR-4	Performance	❖ High-performance and Productivity for users
NFR-5	Scalability	❖ Perfectly scalable to handle workload and how agile it is at accomplishing that task