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

Date	03 October 2022
Team ID	PNT2022TMID35429
Project Name	Project - 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's disease and its symptoms. • If new user, REGISTER • If the user exists, LOGIN
FR-2	User Registration Page	Registration through the form - Username, Email id, Password, and Phone number.
FR-3	Confirmation step	Confirmation via OTP.
FR-4	Login page	Users enter their Phone number and password to log in.
FR-5	Test inputs	Provide the details asked on the webpage and get the results.

FR-6	Results	• If POSITIVE - Consult a doctor, it can't be cured completely but can be treated with Leison surgery, deep brain stimulation, and neural grafting or tissue transplants. • If NEGATIVE - Preventive measures can be given. NOTE: The treatment can also vary from person to person depending on their specific symptoms.

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 all users even those who aren't literate. Can be used by old people as well
NFR-2	**Security**	Patient details accessible only to admin and user. Can not accessed by third party.
NFR-3	**Reliability**	Patient details protected. Highly accurate Machine Learning model, so the prediction is accurate.
NFR-4	**Performance**	Faster prediction and results given to user quickly. Saves precious time as early diagnosis is priority.
NFR-5	**Availability**	Currently, there is no cure for Parkinson's disease but we can control it through some treatment with early detection by this application.