

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

Date	03 October 2022
Team ID	PNT2022TMID32370
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	<ul style="list-style-type: none"><li>● Description of Parkinson's disease and its symptoms.</li><li>● If new user, REGISTER</li><li>● If the user exists, LOGIN</li></ul>
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	<ul style="list-style-type: none"><li>● 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.</li><li>● If NEGATIVE - Preventive measures can be given.</li></ul> <p>NOTE: The treatment can also vary from person to person depending on their specific symptoms.</p>

## **Non-functional Requirements:**

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

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	The application is useful in detecting disease, even illiterate people can access the form.
NFR-2	<b>Security</b>	Only the user and the admin can view patient details so that the details are secured.
NFR-3	<b>Reliability</b>	Patients' details are better protected from identity theft. Accuracy of the ML model is higher, so the prediction is accurate.
NFR-4	<b>Performance</b>	Reduces the overall load time of prediction and the interactivity with the user.
NFR-5	<b>Availability</b>	Currently, there is no cure for Parkinson's disease but we can control it through some treatment with early detection by this application.
NFR-6	<b>Scalability</b>	Describe the ability to properly handle upbringing workload.