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

Date	25 October 2022
Team ID	PNT2022TMID12853
Project Name	Predicting the energy output of wind turbine based on weather condition
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	User Registration (For App and webpage)	Registration through E-Mail or Mobile number.
FR-2	User Confirmation	Confirmation message sent to registered E-Mail id or mobile number.
FR-3	Essential details	o City name o Wind speed o Wind direction o Temperature o Humidity
FR-4	Output	Wind Energy will be shown in KW/hr

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	o User-friendly. o Need not any special knowledge.
NFR-2	**Security**	o Data provided by the user will be protected from the unauthorized access. o Datas are secured in cloud.
NFR-3	**Reliability**	o Weather Information are up to date because it uses weather API for weather prediction. o It will provide the consistency in output.
NFR-4	**Performance**	o Website activity is quite faster and reliable. o Output values are so accurate.
NFR-5	**Availability**	o Supports most of the device configurations. o Anyone can access the website with proper internet connection.
NFR-6	**Scalability**	o Often improving in technology and generating large amount of data, the website features also changes over a period.