

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

Date	25 October 2022
Team ID	PNT2022TMID51318
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	<ul style="list-style-type: none">○ City name○ Wind speed○ Wind direction○ Temperature○ 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	<ul style="list-style-type: none">○ User-friendly.○ Need not any special knowledge.
NFR-2	Security	<ul style="list-style-type: none">○ Data provided by the user will be protected from the unauthorized access.○ Datas are secured in cloud.
NFR-3	Reliability	<ul style="list-style-type: none">○ Weather Information are up to date because it uses weather API for weather prediction.○ It will provide the consistency in output.
NFR-4	Performance	<ul style="list-style-type: none">○ Website activity is quite faster and reliable.○ Output values are so accurate.
NFR-5	Availability	<ul style="list-style-type: none">○ Supports most of the device configurations.○ Anyone can access the website with proper internet connection.
NFR-6	Scalability	<ul style="list-style-type: none">○ Often improving in technology and generating large amount of data, the website features also changes over a period.