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

Solution Requirement (Functional & Non-Functional)

Date	**29 October 2022**
Team ID	**PNT2022TMID54445**
Project Name	**Predicting the energy output of wind turbine based on weather condition**
Maximum Marks	**4 Marks**

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration(For both app and webpage)	Registration through by your email or mobile number.
FR-2	User Confirmation	Confirmation will be sent to your registered mail id and msg via mobile number.
FR-3	Essentiality	• City name • Wind speed • Wind direction • Weather condition(temperature, humidity)
FR-4	Output	Predicated Energy will be show in KW/h

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• Easy to use not need special knowledge • User friendly
NFR-2	**Security**	Privacy – User need to create their account their self not to share details to others for secure their data.
NFR-3	**Reliability**	Wind Energy is reliable because of it's a Renewable Energy source.
NFR-4	**Performance**	We use more than one model to ML Model training so The Accuracy is so good.,
NFR-5	**Availability**	This is to be a web based application so anyone can access it through any device with better internet connection.
NFR-6	**Scalability**	This app can be used to provide useful information to the user. The users maybe whomever like Organizations, Students, Government.