

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

Solution Requirement (Functional & Non-Functional)

Date	29 October 2022
Team ID	PNT2022TMID45553
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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.