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

Date	16 October 2022
Team ID	PNT2022TMID33245
Project Name	Project - 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	Weather Condition	The weather condition in real time is need to be collected and examine
FR-2	Symbolic Regression	This method is used to produce more reliable output
FR-3	Data Modular Tool	This Tool uses Genetic programming and thus helps to get accurate result
FR-4	Energy Prediction	The energy needs to be predicted in a effective way thus to get perfect model
FR-5	Energy output	The output of the energy is used for the future enhancement of the model

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system is highly usable for people as it provides an interface which is easily accessible
NFR-2	**Security**	This system provide highly secure data storage and also prevent leakage of data
NFR-3	**Reliability**	This helps to provide highly securable and efficient data integrity
NFR-4	**Performance**	The system performs well under all critical circumstance thus provide user a satisfiable interface
NFR-5	**Availability**	It is globally available to all user across the world and also available to the remote village users
NFR-6	**Scalability**	It is a highly scalable system that provide user with a huge storage of data and it makes the retrieval of data so easy