

Project Design Phase-II

Data Flow Diagram & User Stories

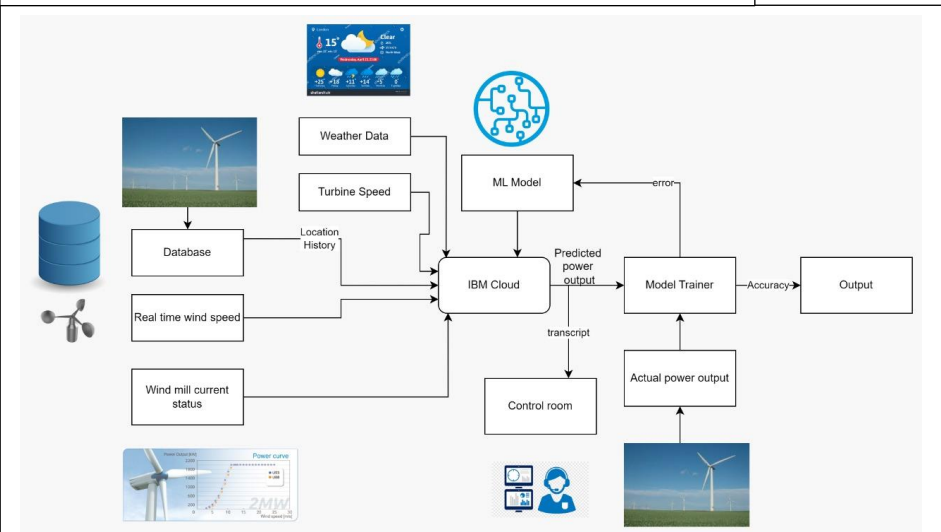
Date	03 October 2022
Team ID	PNT2022TMID12909
Project Name	Predicting the energy output of Wind Turbine based on Weather conditions
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

1. The Weather data and Wind speed data is fed as input to the ML Model.
2. The previous years data stored in cloud is fed as input to the ML Model.
3. The expected power production is predicted.
4. The Predicted value is sent to the user, and also stored in cloud.
5. The predicted output power is compared with actual power produced.
6. The error in prediction is calculated and used as a feedback to train the model.
7. The model accuracy increases over the course.

Predicting the energy output of Wind Turbine based on Weather conditions



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user I can buy the ML model and train it customize according to the needs.	I can access my account / dashboard	High	Sprint-1
		USN-2	My Identity can be verified through a mail.	I can receive confirmation email & click confirm	High	Sprint-1
	Login	USN-1	As a user, I can log into the application by entering email & password.	I can login into the admin window	Low	Sprint-1
		USN-2	For different Wind Mill, various login can be used.	Different id and password can be used for different Wind Mills.	High	Sprint-2
	Dashboard	USN-3	The various functionalities can be viewed and navigated from the dashboard.	The options are clear and easily understandable.	Medium	Sprint-2
Customer Care Executive	Queries	USN-1	The Customer Care executive answered my call and guided me.	He was calm and helped me through the process,	Medium	Sprint-2
	Initial Setup	USN-2	After the ML model has been bought the sales executive helped me setup the model.	He was clear and knowledgeable.	High	Sprint-3
Administrator	Remote Access	USN-1	I have remote access to all the models and can be worked on.	The remote access works flawlessly.	Medium	Sprint-4
		USN-2	The integration with cloud was easy and simple.	The cloud access is very good.	Low	Sprint-4