# Project Design Phase II

**Data Flow Diagram & User Stories**

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| **Date** | **09 November 2022** |
| **Team ID** | **PNT2022TMID12567** |
| **Project Name** | **Predicting the energy output of wind turbine based on**  **weather conditions** |

# 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.

# Example:

Weather condition On data

Is it collected and examined

Is symbolic regression applied

Is the connectivity of network stable

Yes Yes Yes

Energy output is predicted

No process

Genetic programming Modeler is used to Predict data and store To the database

Is the energy output predicted is reliable accurate and can be correlated

Further process is carried out for system implementation

Yes

# User Stories

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance Criteria** | **Priority** | **Release** |
| Customer | Installation | USN-1 | I can install the energy predictor as an industries safely | I can do it myself | High | Sprint-1 |
| Customer | Handling of device | USN-2 | The device should be handled safely | I will handle it | High | Sprint-2 |
| Customer | Safety | USN-3 | The device should not have any contact with excessive heat or cold beyond the limit | I will ensure that | High | Sprint-3 |
| Customer | Power connectivity | USN-4 | The power should be given at a perfect quantity and should not be overloaded | I can assure that | Medium | Sprint-4 |