

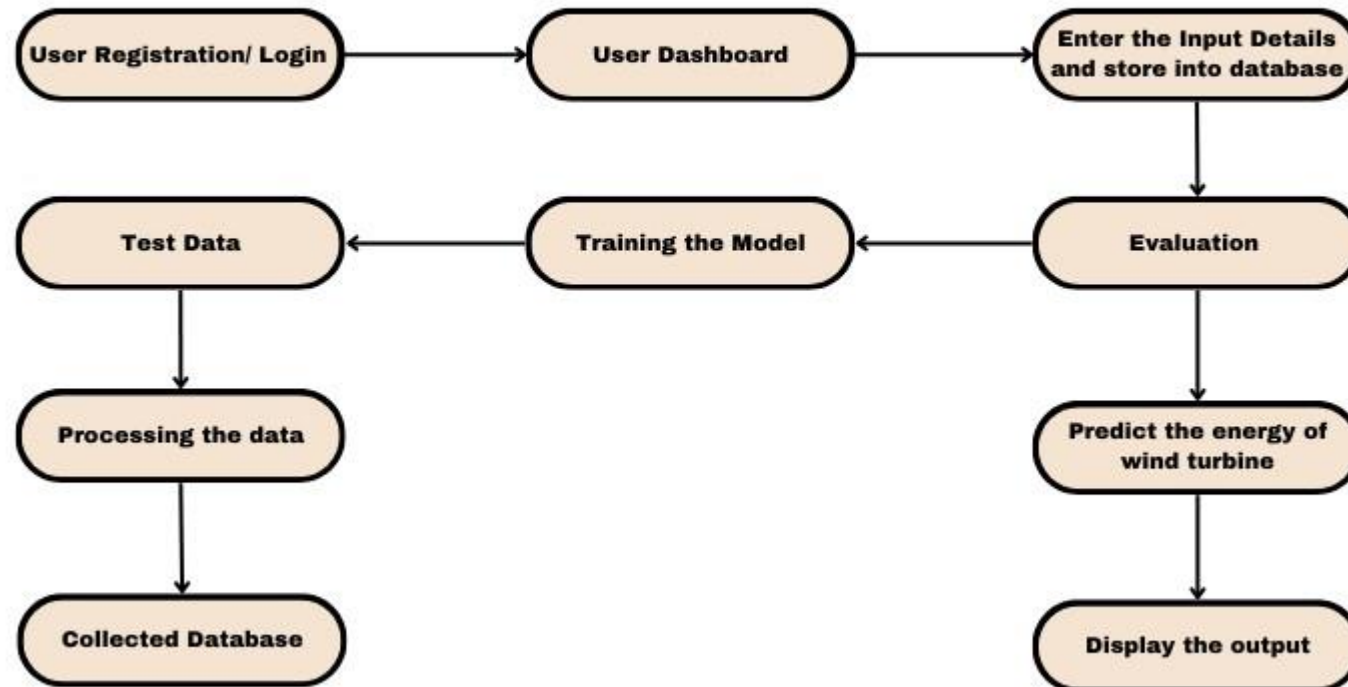
**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	04-11-2022
Team ID	PNT2022TMID28461
Project Name	Predicting the energy output of wind turbine based on weather condition
Maximum Marks	4 Marks

**Data Flow Diagrams:**

- 1, The user should register on web application using mail ID and password**
- 2. The user should enter the wind details such as wind speed, wind direction and temperature**
- 3. The data given by the forecaster is taken as the input and will get stored in IBM cloud database**
- 4. The application is build to predict the energy that produces by wind turbine based on weather condition.**

# FLOW CHART



## 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
Admin	Data set	USN-1	Gather the information needed to make the wind energy prediction value	Enough data has been gathered to train the model	High	Sprint-1
	Data Preprocessing	USN-2	Perform data cleaning to optimize the dataset	Clean Dataset enough to make accurate predictions	High	Sprint-1
	Training & Building Model	USN-3	Building the model using linear regression algorithms to classify the data	Model should be used for predicting exact valuation of the wind energy.	High	Sprint-1
	Deploy the model	USN-4	Deployment of ML model using IBM Cloud	Model should be working fine from the cloud	High	Sprint-1
	Integrate the web application with the IBM model	USN-5	Use flask for the integration purpose	The model ought to be simple to use and reliable on the web application.	High	Sprint-1
Meteorologist	Home page	USN-6	Information on the application and the process for wind energy prediction.	We can get an idea about how to use these model	Medium	Sprint-2
	Registration	USN-7	As a user, I can register for the application by entering my email, password, and confirming my password	User can access my account / dashboard	High	Sprint-3
	Login	USN-8	As a user, I can log into the application by entering email & password	User can login to my account	High	Sprint-3
	Dashboard	USN-9	User can enter the details and get the prediction values.	User can add input values	Medium	Sprint-1
	Output	USN-10	As a user, I can be able to access the predicted output value of wind energy	Predicted values must be displayed depending on the data provided by the user.	Medium	Sprint-1