

Date	01 November 2022
Team ID	<b>PNT2022TMID05596</b>
Project Name	<b>PREDICTING THE ENERGY OUTPUT OF WIND TURBINE BASED ON WEATHER CONDITION</b>
Maximum Marks	8 Marks

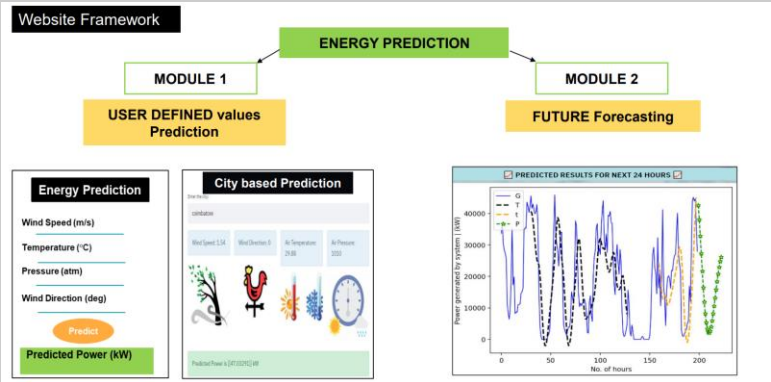
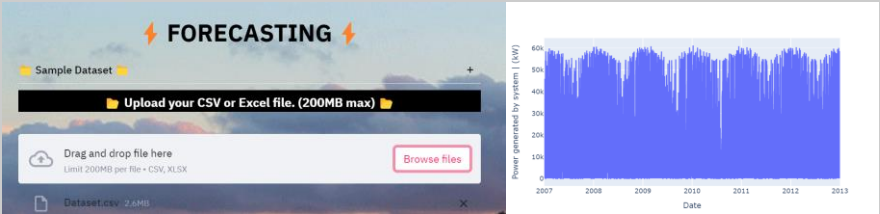
## PROJECT PLANNING PHASE - MILESTONE AND ACTIVITIES LIST

ACTIVITY NO	ACTIVITY NAME	DETAILED ACTIVITY DESCRIPTION	ASSIGNED TO
1	Preparation Phase	<p>Access the resources(courses) in project dashboard. Access the guided project workspace.</p> <p>Create github account&amp; collaborate with project repository.</p> <p>Setup the laptop /computers based on the perquisites for each technology track.</p>	<p>Brindha M</p> <p>Aruna N</p> <p>Deepika K</p> <p>Harini K S</p>
2	<b>Ideation Phase</b>		
2.1	Literature Survey	Literature survey on the selected project & information gathering.	<p>Brindha M</p> <p>Aruna N</p>
2.2	Define the Problem Statement	Prepare the list of problem statement to understand the user needs.	<p>Brindha M</p> <p>Deepika K</p>
2.3	Empathy Map	Preparation of empathy map canvas to capture the user pains & gains	<p>Deepika K</p> <p>Harini K S</p>

2.4	Brainstorm and Idea Prioritization	List the ideas by organizing the brainstorming sessionprioritize the top 3 ideas based on the feasibility and importance	Brindha M Aruna N
<b>3</b>	<b>Project Design Phase I</b>		
3.1	Proposed Solution	Preparation of proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability ofsolution.	Aruna N Brindha M Deepika K
3.2	Problem Solution Fit	Prepared problem isanalyzed and make effective solution of the problem.	Brindha M Deepika K
3.3	Solution Architecture	Prepare an architecturefor solution.	Brindha M Harini K S
<b>4</b>	<b>Project Design Phase II</b>		
4.1	Functional Requirement	Prepare the functionaland non-functional requirement.	Aruna N Brindha M Harini K S
4.2	Customer Journey	Preparation of customer journey mapsto understand the user interaction and experience with the application(entry to exit)	Deepika K

4.3	Data Flow Diagram	Prepare the data flow diagram for project uselevel 0	Harini K S Deepika K
4.4	Technology Architecture	Prepare technologyarchitecture of the solution.	Aruna N Brindha M Deepika K
<b>5</b>	<b>Project Planning Phase</b>		
5.1	Milestone and Task	Prepare milestone and activity list	Harini K S Deepika K
5.2	Sprint Schedules	Prepare sprint delivery plan	Aruna N Brindha M Deepika K
<b>6</b>	<b>Project Development Phase</b>		
6.1	Coding & Solutioning	Sprint-1 Delivery.	Brindha M Aruna N Deepika K Harini K S
6.2	Acceptance Testing	Sprint-2 Delivery.Sprint-3 Delivery. .	Brindha M Deepika K
6.3	Performance Testing	Sprint-4 Delivery.	Brindha M Deepika K

## PRODUCT BACKLOG, SPRINT SCHEDULE AND ESTIMATION

Sprint	Milestone
Sprint 1	<p>User dashboard where in energy prediction comes with <b>user defined prediction, city-based prediction &amp; future forecasting.</b></p> 
Sprint 2	<ul style="list-style-type: none"> <li>• <b>Users can access the dashboard</b></li> </ul> <p>Users can enter the required details on weather conditions and get the desired turbine power output based on the model's prediction.</p>
Sprint 3	<ul style="list-style-type: none"> <li>• <b>The data stored should be secure.</b></li> </ul> <p>Application should store the predictions, and these predictions can be used for future analysis.</p> 
Sprint 4	<p>Administrator should properly maintain the website and update it when required.</p>

## MILESTONE TIMELINE

### Milestone Timeline - PNT2022TMID05596

