# PROJECT PLANNING PHASE

# MILESTONE AND ACTIVITIES LIST

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|---|---|
| Date | 16 November 2022 |
| Team ID | PNT2022TMID52191 |
| Project Name | Predicting the energy output of wind turbine based on weather conditions |
| Maximum Marks | 8 Marks |

| ACTIVITY NO | ACTIVITY NAME | DETAILED ACTIVITY DESCRIPTION | Assigned to |
|---|---|---|---|
| 1 | Preparation Phase | Access the resources (courses) in project dashboard. Access the guided project workspace. Create github account & collaborate with project repository. Setup the laptop /computers based on the perquisites for each technology track. | Faheem Anwar Ramesh Selva |
| **2** | **Ideation Phase** | | |
| 2.1 | Literature Survey | Literature survey on the selected project & information gathering. | Mohamed Ukkasha Subakani.M  Ananth Kumar.M  Rajagopalaramesh.E |
| 2.2 | Define the Problem Statement | Prepare the list of problem statement to understand the user needs. | Ananth kumar Rajagopalaramesh Selva Subbiah A |
| 2.3 | Empathy Map | Preparation of empathy map canvas to capture the user pains & gains | Faheem Anwar Ananth Ramesh |
| 2.4 | Brainstorm and Idea Prioritization | List the ideas by organizing the brainstorming session prioritize the top 3 ideas based on the feasibility and importance | Faheem Anwar Ramesh Selva |

| 3 | | **Project Design Phase I** | |
|---|---|---|---|
| 3.1 | Proposed Solution | Preparation of proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution. | Mohamed Ukkasha Subakani.M<br><br>Faheem Anwar<br><br>Selva Subbiah |
| 3.2 | Problem Solution Fit | Prepared problem is analyzed and make effective solution of the problem. | Faheem Anwar<br><br>Ananth Kumar.M<br><br>Rajagopalaramesh.E |
| 3.3 | Solution Architecture | Prepare an architecture for solution. | Ananth Kumar.M<br><br>Rajagopalaramesh.E<br><br>Mohamed Ukkasha Subakani.M<br><br>Selva Subbiah |
| 4 | | **Project Design Phase II** | |
| 4.1 | Functional Requirement | Prepare the functional and non- functional requirement. | Faheem Anwar<br><br>Ananth Kumar.M<br><br>Rajagopalaramesh.E |
| 4.2 | Customer Journey | Preparation of customer journey maps to understand the user interaction and experience with the application(entry to exit) | Mohamed Ukkasha Subakani.M<br><br>Selva Subbiah<br><br>Rajagopalaramesh.E |
| 4.3 | Data Flow Diagram | Prepare the data flow diagram for project use level 0 | Faheem Anwar<br><br>Mohamed Ukkasha Subakani.M<br><br>Rajagopalaramesh.E |

| 4.4 | Technology Architecture | Prepare technology architecture of the solution. | Mohamed Ukkasha Subakani.M |
|---|---|---|---|
| | | | Ananth Kumar |
| | | | Selva Subbiah |

| 5 | Project Planning Phase | | |
|---|---|---|---|
| 5.1 | Milestone and Task | Prepare milestone and activity list | Faheem Anwar<br>Ukkasha<br>Ananth<br>Ramesh<br>Selva |
| 5.2 | Sprint Schedules | Prepare sprint delivery plan | Faheem Anwar<br>Ukkasha<br>Ananth<br>Ramesh<br>Selva |
| 6 | Project Development Phase | | |
| 6.1 | Coding & Solutioning | Sprint-1 Delivery. | Faheem Anwar<br>Ananth<br>Ramesh |
| 6.2 | Acceptance Testing | Sprint-2 Delivery.<br>Sprint-3 Delivery.<br>. | Faheem Anwar<br>Ukkasha<br>Ananth<br>Ramesh<br>Selva |
| 6.3 | Performance Testing | Sprint-4 Delivery. | Faheem Anwar<br>Ukkasha<br>Ananth<br>Ramesh<br>Selva |

## Product Backlog, Sprint Schedule, and Estimation

| Sprint | Milestone |
|--------|-----------|
| Sprint 1 | 1. Users register into the application through entering Email Id, Password and Re-entering Password for confirmation.<br>2. Users receive a confirmation mail to their registered Email.<br>3. Users can also register to the application through a mobile number.<br>4. User logs in into the website using Email Id and password or through Gmail |
| Sprint 2 | 1. Users can access the dashboard<br>2. Users can enter the required details on weather conditions and get the desired turbine power output based on the model's prediction. |
| Sprint 3 | 1. Application should store the predictions, and these predictions can be used for future analysis.<br>2. The data stored should be secure. |
| Sprint 4 | 1. Administrator should properly maintain the website and update it when required. |

# MILESTONE WITH TIMELINE CHART

Empathy Map,
Literature survey,
Brainstorm & idea
proioritization, Problem
statement

Solution architecture,
Problem solution fit

Solution requirement

Milestone & activity ,
Sprint delivery plan

Sprint 2

Sprint 4

25 Aug

22 Sep

7 Oct

15 Oct

26 Oct

10 Nov

22 AUG

12 Sep

1 Oct

12 Oct

18 Oct

3 Nov

15 Nov

Git colab

Proposed solution

Customer journey map

Technolgy stack

Sprint 1

Sprint 3