**Project Planning Phase**

**Sprint Delivery Planning**

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| --- | --- |
| DATE | 29 OCT 2022 |
| TEAM ID | PNT2022TMID34509 |
| PROJECT NAME | Predicting the energy output of wind turbine based on weather condition |
| MARK | 8 mark |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional  Requirement | User Story  Number | User Story/Task | Story Point | Priority | Team Members |
| Sprint-1 | Building Model-1 | USN-1 | As a use l can request for the wind direction,  Wind speed | 5 | High | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-1 |  | USN-2 | As a use l can request for the speed of the wind | 5 | High | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-1 |  | USN-3 | As a use l can request for the direction of the wind | 2 | Low | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-2 | Building Model-2 | USN-4 | As a use l can find the speed of the wind | 3 | Medium | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-2 |  | USN-5 | As a use l can find the direction of the wind | 5 | High | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional  Requirement | User Story  Number | User Story/Task | Story Point | Priority | Team Members |
| Sprint-2 |  | USN-6 | Once I have find the wind direction ,I can use this information to getting high energy output | 6 | Medium | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-2 |  | USN-7 | If I get the current wind speed , I can predict the energy output | 7 | High | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-3 | Building UI | USN-8 | As a customer when I enter the weather details the website should predict the approximate | 20 | High | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-3 |  | USN-9 | As a customer I can access the website to predict the turbine energy output | 20 | Medium | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-4 | Hosting , Storage & Deployment | USN-10 | As a customer I wish to store my predictions and make analyses | 10 | Low | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |
| Sprint-4 |  | USN-11 | As an administrator I should maintain the website and update the website regularly | 10 | Low | Derick Prince J  Balaji KK  Bysone Prince S  Dialing Dijoe X |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 9 Days | 24 Oct 2022 | 01 Nov 2022 | 20 | 01 Nov 2022 |
| Sprint-2 | 20 | 5 Days | 01 Nov 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 4 Days | 14 Nov 2022 | 17 Nov 2022 | 20 | 17 Nov 2022 |

**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

**Burndown Chart:**

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time

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[**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

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