Project Planning Phase

**Sprint Delivery Planning**

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| Date | 18 October 2022 |
| Team ID | **PNT2022TMID52886** |
| Project Name | Predicting the energy output of wind turbine based on weather condition |
| Maximum Marks | 8 Marks |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-1 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 5 | High | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 5 | High | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-1 |  | USN-3 | As a user, I can register for the application using phone number | 2 | Low | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-1 |  | USN-4 | As a user, I can register for the application through Gmail | 3 | Medium | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 5 | High | Akhil P  Melferd M  Harish R M  Meenatchi V |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-2 | Dashboard | USN-6 | Once I have logged in, I can see my dashboard. | 6 | Medium | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-2 | Web Access | USN-7 | As a customer I can access the website to predict the turbine power. | 7 | High | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-2 | Prediction | USN-8 | As a customer when I enter the weather details the website should predict the approximate turbine power. | 7 | High | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-3 | Analysis | USN-9 | As a customer, I wish to store my predictions and make analyses. | 10 | Medium | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-3 | Security | USN-10 | As a customer I expect my data to be secured. | 10 | Medium | Akhil P  Melferd M  Harish R M  Meenatchi V |
| Sprint-4 | Database Access | USN-11 | As an administrator, I should maintain the website and update the website regularly. | 20 | Low | Akhil P  Melferd M  Harish R M  Meenatchi V |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 6 Days | 24 Oct 2022 | 29 Oct 2022 |  |  |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/> <https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management> <https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software> <https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints> <https://www.atlassian.com/agile/project-management/estimation> <https://www.atlassian.com/agile/tutorials/burndown-charts>