Project Planning Phase

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

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| --- | --- |
| Date | 31 October 2022 |
| Team ID | PNT2022TMID29903 |
| Project Name | Smart waste management system. |
| Maximum Marks | 8 Marks |

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

Use the below template to create product backlog and sprint schedule

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Garbage detection and level monitoring | USN-1 | As a user, I can get the garbage level alert when the level high. | 20 | High | Mohan kumar.V  Harisudhan.T |
| Sprint-1 |  | USN-2 | As a user, I can get the garbage level alert when the level high. | 20 | Medium | Kanimozhi.M  Divya dharshini.R |
| Sprint-2 | GPS Tracking | USN-3 | As a user, I can get the dustbin location. | 20 | Medium | Mohan kumar.V  Harisudhan.T |
| Sprint-2 |  | USN-4 | As a user, I can get the dustbin location when the garbage full. | 20 | High | Kanimozhi.M  Divya dharshini.R |
| Sprint-3 | Node red creation | USN-5 | As a user, I can receive garbage level with location through web application. | 20 | High | Mohan kumar.V  Harisudhan.T |
| Sprint-3 |  | USN-6 | As a user, I can receive garbage level with location through mobile app. | 20 | Medium | Kanimozhi.M  Divya dharshini.R |
| Sprint-4 | Documentation | USN-7 | As a user, I can get the garbage level  Documentation. | 20 | Medium | Mohan kumar.V  Harisudhan.T |
| Sprint-4 |  | USN-8 | As a user, I can get the garbage level location and documentation. | 20 | High | Kanimozhi.M  Divya dharshini.R |
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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 | In progress | 31Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | In progress | 05 Oct 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | In progress | 17 Oct 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | In progress | 19 Oct 2022 |
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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 burn down 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>