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

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|---|---|
| Date | 22 October 2022 |
| Team ID | PNT2022TMID05381 |
| Project Name | Project – 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

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Login | USN-1 | As an Administrator, I can have total access to all the Co-Admin and Truck driver and monitor the waste. | 20 | High | Vignesh S |
| Sprint-2 | Login In | USN-2 | As a Co-Admin, I'll control the waste level by monitoring them via IBM Iot. Once the filling happens, I'll notify trash truck with location of bin with bin ID. | 20 | High | Umaiya Pandi P |
| Sprint-3 | Dashboard | USN-3 | As a Co-Admin, I will set the Notification process and other management are done. | 20 | High | Surya Shree N |
| Sprint-4 | Dashboard | USN-4 | As a Truck Driver, I can able to see the filled dustbin in my Dashboard and empty them. | 10 | Medium | Srikesh B |
| Sprint-4 | Dashboarree | USN-5 | As a Municipality officer I can view all the process is proceeding without any problems. | 10 | High | Vignesh S |

**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 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | |
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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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$