# Project Delivery Schedule

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

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID02110 |
| Project Name | Smart Waste Management System For Metropolitan Cities |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password and login with the registered mail and password. | 2 | High | Daadreyaa D<br>Geethanjali M<br>Deepasree R |
| Sprint-1 | Web UI for monitoring bin level | USN-2 | As a user, I can see a dashboard that displays the bin level. | 1 | Low | Deepasree R<br>Aruna S |
| Sprint-2 | Garbage level detection in bins | USN-3 | As a user, I can see the weight of the bins from the data collected from a weight sensor. | 2 | High | Geethanjali M<br>Deepasree R<br>Aruna S |
| Sprint-2 | Sending alert messages to the authorized person | USN-4 | As a user, I can receive alerts when the bin is full. | 1 | Low | Deepasree R<br>Daadreyaa D |
| Sprint-3 | GPS location tracking of the bins | USN-5 | As a user, I can track the location of the bins. | 2 | Medium | Aruna S<br>Geethanjali M |
| Sprint-4 | Shortest Route Planning for garbage collection | USN-6 | As a user, I can take the shortest path to collect the garbage. | 1 | Medium | Daadreya D<br>Geethanjali M |

**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 | ` | |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 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)

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

**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 methodologies such as Scrum. 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
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