# IOT – SMART WASTE MANAGEMENT SYSTEM

## Project Planning Phase

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

| | |
|---|---|
| Date | 13 NOVEMBER 2022 |
| Team ID | PNT2022TMID43127 |
| 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 | Dashboard | USN-1 | As a User , I can view the location of the bin | 2 | High | Deenadhayalan.S |
| Sprint-1 | Dashboard | USN-2 | As a user I can monitor the garbage unit and level | 1 | High | Deenadhayalan.S |
| Sprint-2 | Dashboard | USN-3 | As a User , I can view the location of the bin | 2 | High | Jayaselvi.M |
| Sprint-2 | Dashboard | USN-4 | As a user I can monitor the garbage unit and level | 1 | High | Jayaselvi.M |
| Sprint-3 | Dashboard | USN-5 | As a User , I can view the location of the bin | 2 | High | Muppidathi.S |
| Sprint-3 | Dashboard | USN-6 | As a user I can monitor the garbage unit and level | 1 | High | Muppidathi.S |
| Sprint-4 | Dashboard | USN-7 | User can view all the bin's data in single dashboard map | 1 | High | Senthamilselvi.R |

–

**Project Tracker, Velocity & Burn down 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 | 28 Oct 2022 | 20 | 18 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 30 Oct 2022 | 04 Nov 2022 | 20 | 18 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 06 Nov 2022 | 12 Nov 2022 | 20 | 18 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 13 Nov 2022 | 18 Nov 2022 | 20 | 18 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)

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

## Burndown Chart: