

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID30692
Project Name	Project – Smart waste Management 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	Weight of the garbage bin	USN-1	The very first stage is to monitor the weight of the filled garbage tins at each specified location	1	Low	Madura T V, Pavithra B L
Sprint-1	Level of the garbage bin	USN-2	The very first stage is to monitor the filled level of the filled garbage tins at each specified location	1	Medium	Pavithra B L, Pavatharani Shanmugamani
Sprint-2	Web App Monitoring	USN-3	Garbage levels are monitored through web application	2	High	Madura T V, Mohammed Sufaid
Sprint-3	Alerting authorised person	USN-4	Alert an authorised person to empty the filled bins	2	High	Mohammed Sufaid, Pavatharani Shanmugamani
Sprint-4	GPS location view	USN-5	Viewing the location of the bins through GPS location	1	High	Pavithra B L, Mohammed Sufaid

**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	18 Oct 2022	23 Oct 2022	20	23 Oct 2022
Sprint-2	20	6 Days	25 Oct 2022	30 Oct 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)

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

## 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.

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Burndown Chart - Generated by <https://easyretro.io>

Burndown Chart

