

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID37949
Project Name	Project - Smart Waste Management
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 admin, I gave user ID and password for workers and manage them.	10	High	Janani
Sprint-1	Login	USN-2	As a Co-admin, I'll track the level of the garbage bins with unique ID. When the level reaches the threshold limit and provide location access to clean the dustbins.	10	High	Pooja
Sprint-2	Dashboard	USN-3	As a truck driver, I 'll follow the route send by Co-admin to reach filled garbage location.	20	Low	Logeshwari
Sprint-3	Dashboard	USN-4	As a garbage collector, I'll collect all the trash into garbage truck and send it to dumping ground	20	Medium	Surya
Sprint-4	Dashboard	USN-5	As a municipality, I'll check the process is happening in good manner without any issues.	20	High	Kalaivani

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

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

