Project Planning Phase

Date	6 November 2022
Team ID	PNT2022TMID05224
Project Title	Smart waste management system for metropolitan cities.

- 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	Monitoring	USN-1	The IOT device will monitor the garbage level in trashcans.	20	High	1.A.R.Kavinilavu 2.Harish Adithyaa.M 3.Kavitha.M 4.Jothi Lakshmi.M
Sprint 1	Registration	USN-2	As a trashcan monitor I can initialize new trashcans.	20	Low	1.A.R.Kavinilavu 2.Harish Adithyaa.M 3.Kavitha.M 4.Jothi Lakshmi.M

Sprint2	Dashboard	USN-3	As an admin, I can monitor every dustbin and its garbage levels	20	High	1.A.R.Kavinilavu 2.Harish Adithyaa.M 3.Kavitha.M 4.Jothi Lakshmi.M
Sprint-3	Alert	USN-4	As a Co-Admin, I can send alert message to the truck drivers.	20	High	1.A.R.Kavinilavu 2.Harish Adithyaa.M 3.Kavitha.M 4.Jothi Lakshmi.M
Sprint-4	Location View	USN-5	As a trash van driver, I will follow the route to the dustbin.	20	Medium	1.A.R.Kavinilavu 2.Harish Adithyaa.M 3.Kavitha.M 4.Jothi Lakshmi.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	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 202

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: