

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

Date	22 October 2022
Team ID	PNT2022TMID39755
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	Monitoring	USN-1	The IoT device will monitor the garbage level in trashcans.	20	High	Stephenraj.W Justinraj.J Merunraj.W Karan.D
Sprint 1	Registration	USN-2	As a trashcan monitor I can initialize new trashcans.	20	Low	Stephenraj.W Justinraj.J Merunraj.W Karan.D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-3	As an admin, I can monitor every dustbin and its garbage levels	20	High	Stephenraj.W Justinraj.J Merunraj.W Karan.D
Sprint-3	Alert	USN-4	As a Co-Admin, I can send alert message to the truck drivers.	20	High	Stephenraj.W Justinraj.J Merunraj.W Karan.D
Sprint-4	Location View	USN-5	As a trash van driver, I will follow the route to the dustbin.	20	Medium	Stephenraj.W Justinraj.J Merunraj.W Karan.D

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	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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)

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

Burndown Chart:

