Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID03917
Project Name	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	Login	USN-1	I have to provide user names and passwords to every employee of the municipality as an administrator. I will monitor the waste level as Admin by using a real-time web interface. When the bin is filled, I'll let the trash truck know the position and bin ID.	10	High	Sriabirami V
Sprint-2	Dashboard	USN-2	As a truck driver, I'll adhere to the instructions administrator's to quickly and efficiently reach the filling bin.	20	Medium	Divyaa Sri A R
Sprint-3	Dashboard	USN-3	I collect all the waste from the garbage as a local garbage collector, load it onto a garbage truck, and bring it to landfills.	20	Medium	Priyadharshini K
Sprint-4	Dashboard	USN-4	I'll ensure that everything goes as planned and as an officer for the Municipality, without any difficulties.	20	High	Shyamala Varshini K

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	28 Oct 2022	3 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	04 Nov 2022	10 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	11 Nov 2022	17 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	18 Nov 2022	24 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)

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