Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID03950
Project Name	Project – 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	Cloud	USN-1	To build and set up an IOT Cloud web server using the Watson IOT platform. The Cloud web server connects the bin and the respective authority.	10	High	Hariharan
Sprint-1	Web UI	USN-2	To build and set up a web UI on the Node Red platform that allows us to view the bin's location and capacity.	10	High	Gowri Shankar
Sprint-2	Python	USN-3	To create a Python software that will alert the appropriate authority when the trash can is full.	10	High	Hariprasath

Sprint-2	GPS	USN-4	The location of the can is shown, so that the appropriate authority can remove the trash from the can.	10	High	Hariharan
Sprint-3	Cloud	USN-5	To upload the python program on the IOT cloud web server.	20	Medium	Gopalram
Sprint-4	Web UI	USN-6	Using Node Red, the required information for the bin is displayed in the web user interface.	20	Medium	Gopalram/Gowri Shankar

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)

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