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

Date	23 October 2022
Team ID	PNT2022TMID42807
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	Login	USN-1	As an admin, I need to create id and password for ever workers to maintain the platform in secure manner.	2	High	Rajalakshmi. K, Kurinjimalar.V
Sprint-1	Dashboard	USN-2	As a co admin, monitoring the real time garbage level. If it reaches maximum level, I will give alert message to the truck driver with a bin id and location. If it Overflows the notification sends to higher authority.	1	High	Brindha devi. K Jayanthan. M
Sprint-2	Dashboard	USN-3	As a truck driver, I will follow the co admin message and track location in shortest route and save the fuel and time.	2	Low	Naveen. N Arputha raja. S
Sprint-1	Dashboard	USN-4	As a garbage collector, I will load the waste in a truck and deliver to a landfill	2	Medium	Naveen. N Jayanthan.M
Sprint-1	Dashboard	USN-5	As a coperation officer, I will monitor everything as a process is going without any issues.	1	High	Arputha raja S Rajalakshmi. 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	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	5 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)

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

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts