Project Planning Phase

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

Date	31 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	Login	USN-1	As an administrator, I manage each employee's work and grant them access.	1	High	Hariharan
Sprint-1	Login	USN-2	I supervise the garbage level monitor as a Co Admin. If the garbage can receives an indication, I shall notify the garbage truck regarding the condition of the garbage can and the garbage ID.	1	High	Gowri Shankar
Sprint-2	Dashboard	USN-3	As the Truck Driver, I'll reach the destination of the Garbage can which the Co Admin sent.	2	Low	Hariprasath
Sprint-3	Dashboard	USN-4	In my role as the waste collector, I will gather all the garbage from the garbage can, load it into the garbage truck, and transport it to the landfill.	2	Medium	Gopalram
Sprint-4	Dashboard	USN-5	As the Municipality, I will make sure that the abovementioned procedures are carried out without any disruptions	2	High	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	26 Oct 2022	1 Nov 2022	20	1 Nov 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)

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

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