Project Planning Phase

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

Date	9 November 2022
Team ID	PNT2022TMID37903
Project Name	Project - Smart waste management
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	Installation	USN-1	As a Admin, I can install the kit	5	High	Deepika.R, Kavitha.D
		USN-2	As a Admin, I will be placing the bin in correct	8	High	Yuvan Shankar Raja.M.G,Sharvani G Hegde
Sprint-2	Monitor	USN-3	As a Admin, I can login into the webpage	4	Medium	Manoj kumar.J, Pavithra.S
		USN-4	As a Admin, I can check the waste level inside the bin	5	High	Deepika.R, Yuvan Shankar
		USN-5	As a Admin, As admin I will be monitoring the location of the bin regularly	9	Medium	Kavitha.D, Sharvani G Hegde
Sprint-3	Notification	USN-6	As an Admin I will get a notification or SMS once the bin get filled	5	High	Manoj kumar.J, Pavithra.S
		USN-7	As a Admin I will get the notification of the location through GPS	10	High	Deepika.R, Sharvani G Hegde
		USN-8	As a Admin I will get the notification of the garbage level	5	Low	Kavitha.D, Pavithra.S

Sprint-4	Collection	USN-9	As a admin ,I will find the exact location of the garbagr filled bin	10	Medium	Manoj kumar.J, Yuvan Shankar Raja.M.G
		USN-10	As a admin, I have to empty the bin regularly	10	High	Sharvani G Hegde, Manoj kumar.J

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	13	5 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	27	8 Days	29 Oct 2022	06 Nov 2022		06 Nov 2022
Sprint-3	20	6 Days	06 Nov 2022	12 Nov 2022		12 Nov 2022
Sprint-4	20	5 Days	12 Nov 2022	17 Nov 2022		18 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)

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}}$$

Sprint 1 = AV = 13 / 5 = 2.6

Sprint 2 = AV = 27 / 8 = 3.3

Sprint 3 = AV = 20 / 6 =3.3

Sprint 4 = AV = 20 / 5 = 4

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