

Project Planning Phase

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

Date	03 November 2022
Team ID	PNT2022TMID17548
Project Name	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	Software	USN-1	Design the circuit which is to be integrated within the garbage bin using sensors.	10	High	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-1	Cloud	USN-2	Cloud web server is created which connects the bin and the authority who is responsible for the disposal of waste from its bin	10	High	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-2	Technology	USN-3	Connect cloud server and bins.	5	High	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-2	Cloud Server	USN-4	Upload the details of truck driver and location of bin using GPS	5	Medium	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R

Sprint-2	Sensor	USN-5	Detect the level of garbage using sensor and stores it in the server for specific interval of time.	10	High	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-3	Python, GPS	USN-6	Write the python code for intimating to the authority about alerting message regarding collection of garbage and where to collect	10	High	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-3	Cloud	USN-7	Authority should allocate which truck driver should collect the waste at particular area	10	Medium	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-4	Communicating Medium	USN-8	Truck driver receives the message from the authority and goes to collect the garbage	10	Medium	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R
Sprint-4	Communicating Medium	USN-9	After collecting the garbage, truck driver intimates that the garbage has collected.	10	Low	AHIESH SUJO I S ARAVIDHAN P R BALAABHILEESH T S R GOWRISANKAR R

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	07 Oct 2022	13 Oct 2022	20	14 Oct 2022
Sprint-2	20	6 Days	15 Oct 2022	21 Oct 2022	20	28 Oct 2022
Sprint-3	20	6 Days	28 Nov 2022	03 Nov 2022	20	03 Oct 2022
Sprint-4	20	6 Days	03 Nov 2022	09 Nov 2022	20	On Going

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)

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

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>