

Project Planning Phase

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

Date	10 November 2022
Team ID	PNT2022TMID08893
Project Name	Estimate the Crop Yield using Data Analytics
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story & task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	I can sign up for the application as a user by providing my email address, a password, and a password confirmation.	2	High	Surya, Maria Rexana, Nandhini, Harini
Sprint-1		USN-2	After registering for the application, I as a user will receive a confirmation email.	1	High	Surya, Maria Rexana, Nandhini, Harini
Sprint-2		USN-3	I can sign up for the application as a user using Google.	2	Low	Surya, Maria Rexana, Nandhini, Harini
Sprint-1		USN-4	I can sign up for the application as a user using Gmail.	2	Low	Surya, Maria Rexana, Nandhini, Harini
Sprint-1	Login	USN-5	I can access the application as a user by providing my email address and password.	1	High	Surya, Maria Rexana, Nandhini, Harini
Sprint-3	Dashboard	USN-6	I am free to use my dashboard and explore the features as a user.	2	High	Surya, Maria Rexana, Nandhini, Harini
Sprint-2		USN-7	I can access using the credentials as a user the assets I'm applying for.	2	High	Surya, Maria Rexana, Nandhini, Harini
Sprint-3		USN-8	Data manipulation operations carried out by the application.	1	High	Surya, Maria Rexana
Sprint-3	Visualization	USN-9	Can use certain datasets to generate dashboards.	2	Medium	Nandhini, Harini
Sprint-4		USN-10	One can perform predictive analysis.	1	High	Maria Rexana, Nandhini

Sprint	Functional Requirement (Epic)	User Story Number	User Story & task	Story Points	Priority	Team Members
Sprint-3		USN-11	With certain datasets, I can produce stories.	2	High	Maria Rexana, Nandhini, Harini
Sprint-4		USN-12	Can export and send reports in accordance with the built-in dashboards and stories.	2	High	Surya, Maria Rexana, Nandhini, Harini

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Point	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	25 Oct 2022	02 Nov 2022	20	19 Nov 2022
Sprint-2	20	6 days	02 Nov 2022	09 Nov 2022	20	19 Nov 2022
Sprint-3	20	6 days	09 Oct 2022	16 Nov 2022	20	19 Nov 2022
Sprint-4	20	6 days	16 Oct 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Consider a scenario in which the sprint will last 10 days and the team's velocity is 20. (Points per sprint). Let's determine the group's average velocity (AV) for each iteration (story points per day).

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

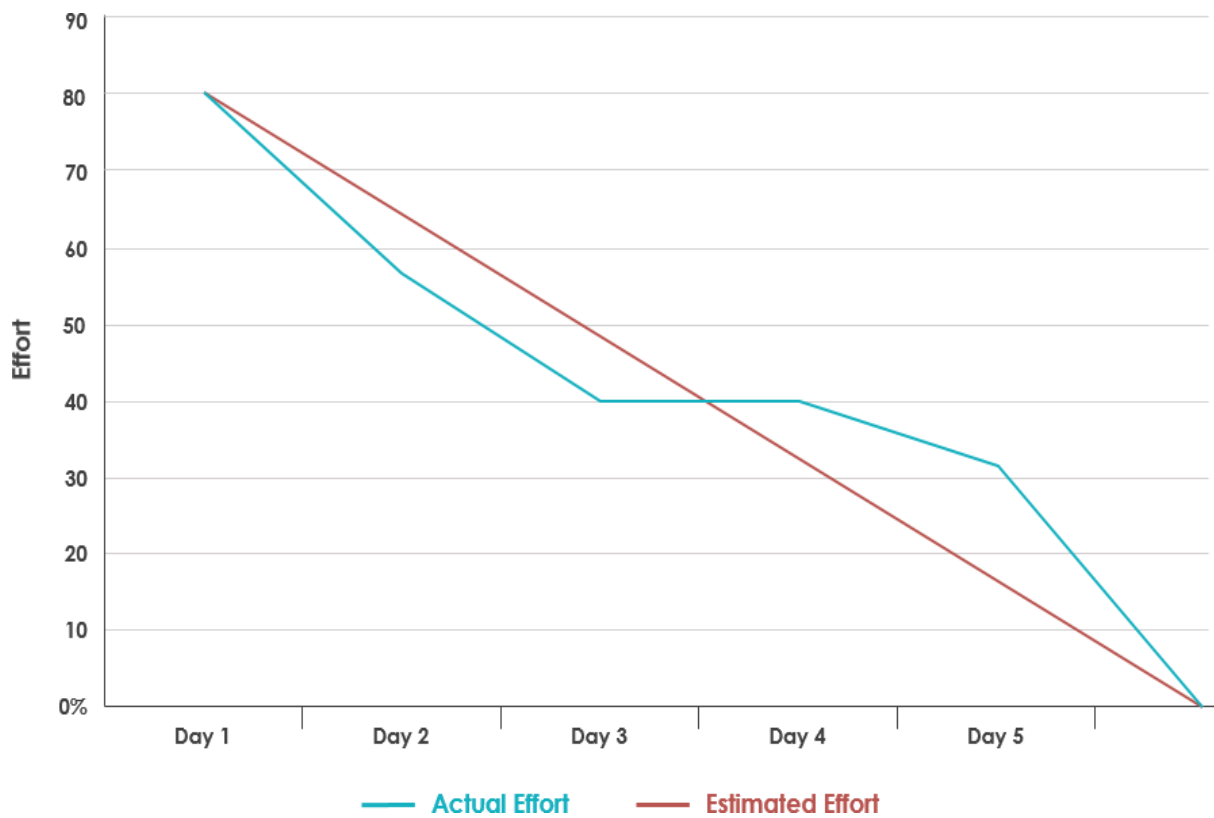
$$AV = 20 / 10 = 2$$

$$AV = \text{Sprint Duration} / \text{Velocity} = 20 / 6 = 3$$

Burndown Chart:

A burn down chart plots the amount of work remaining to perform against the amount of time. In agile software development approaches like Scrum, it is frequently employed. Burn down charts, however, can be used for any project that makes observable progress over time.

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

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Reference :

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

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

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

<https://asana.com/resources/burndown-chart>