

Project Planning Phase

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

Team ID	PNT2022TMID50933
Project Name	Estimate the Crop Yield using Data Analytics
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Jeya Ananthi M Jemema Judi A Divya G Arockia Prisilda S
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Divya G Arockiya Prisilda S
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook	2	Low	Jeya Ananthi M Divya G
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Jeya Ananthi M Jemema Judi A
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Arockiya Prisilda S Jemema Judi A
Sprint-1	Dashboard	USN-6	As a user, I can use the methods provided in the dashboard	2	Medium	Jeya Ananthi M Arockiya Prisilda S
Sprint-2	Prediction	USN-7	As a user, with the results obtained, I can determine whether profit or loss is made	2	High	Arockiya Prisilda S Divya G
Sprint-3	Visualisation	USN-8	Having a view with geographic data	2	High	Divya G Jemema Judi A
Sprint-3	Customer Care	USN-9	As a Customer Care Executive, I can answer users' queries	2	Low	Jeya Ananthi M Divya G
Sprint-4	Tools	USN-10	Analysis is performed by tools like cognos analytics	1	High	Jeya Ananthi M

Sprint-4	Administrator	USN-11	As an admin, I can make changes to the interface according the needs	3	High	Jeya Ananthi M Arockiya Prisilda S Jemema Judi A Divya G
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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	8	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	6	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	2	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	4	19 Nov 2022

Velocity:

The team's average velocity (AV) per iteration unit (story points per day) :

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

Sprint 1: $AV = \text{Sprint duration} / \text{velocity} = 8/6 = 1.34$

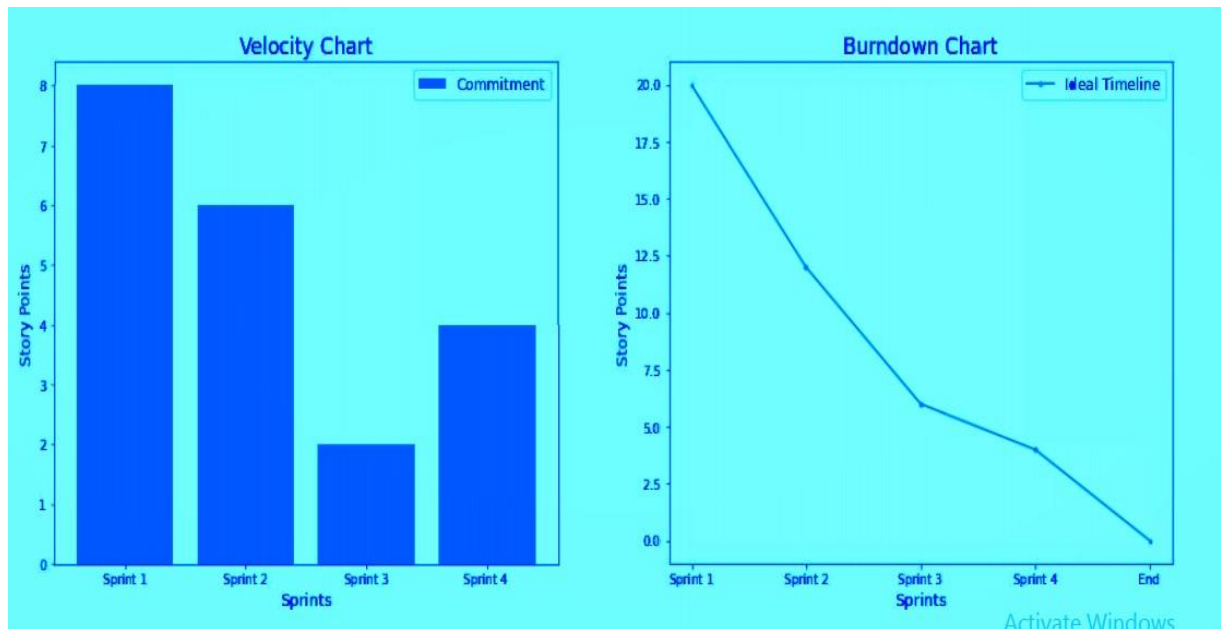
Sprint 2: $AV = \text{Sprint duration} / \text{velocity} = 6/6 = 1$

Sprint 3: $AV = \text{Sprint duration} / \text{velocity} = 2/6 = 0.34$ Sprint

4: $AV = \text{Sprint duration} / \text{velocity} = 4/6 = 0.67$

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.



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