

Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID02306
Project Name	Project – 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.	10	High	Thejha B
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Susmitha R
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Varsha P
Sprint-1		USN-4	As a user, I can register for the application through Gmail	4	Medium	Varshini R
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Susmitha , Thejha
Sprint-2	Dashboard	USN-6	Loading the dataset	2	Low	Varsha , Varshini
Sprint-3		USN-7	Exploring the dataset	10	High	Susmitha , Varsha
Sprint-3	Visualisation	USN-8	Visualising the dataset	10	High	Thejha , Varshini
Sprint-4		USN-9	Plot different graphs for various case studies	5	Medium	Susmitha, Thejha, Varsha, Varshini
Sprint-4		USN-10	Combine into a website with all the results	15	High	Susmitha, Thejha, Varsha, Varshini

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	5 Days	24 Oct 2022	28 Oct 2022	20	29 Oct 2022
Sprint-2	20	5 Days	31 Oct 2022	04 Nov 2022	20	05 Nov 2022
Sprint-3	20	5 Days	07 Nov 2022	11 Nov 2022	20	12 Nov 2022
Sprint-4	20	5 Days	14 Nov 2022	18 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)

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

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>