

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

Date	18 October 2022
Team ID	PNT2022TMID42578
Project Name	Inventory Management System for Retailers
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	Flask python program can be created	3	High	Gunasekhar C, Hari Prakash P, Dhanu Shree P, Jagadish V
Sprint-1	Registration	USN-2	As a user, I can able to see the login page of IMS	2	High	Gunasekhar C, Hari Prakash P,
Sprint-1	Login	USN-3	As a user, I can able to login through the application	2	Medium	Dhanu Shree P, Jagadish V
Sprint-1	Login	USN-4	As a user, I can able to register the application if I'm a new user	2	Medium	Dhanu Shree P, Jagadish V
Sprint-2	Dashboard	USN-5	As a user, I can see to the current inventory products	2	Medium	Dhanu Shree P, Hari Prakash P
Sprint-2	Dashboard	USN-6	As a user, I can able to view, add, edit and delete the stocks	1	High	Gunasekhar C, Hari Prakash P
Sprint-2	Dashboard	USN-7	As a user, I can fix, view, add and delete the locations	2	High	Hari Prakash P, Jagadish V,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-8	As a user, I can able to produce the product movement	2	High	Dhanu Shree P, Gunasekhar C
Sprint-2	Dashboard	USN-9	As a user, I can able to view, add and delete the product movement	1	Medium	Gunasekhar C, Hari Prakash P
Sprint-2	Dashboard	USN-10	As a user, I can see to catalog and update order	2	Medium	Gunasekhar C, Jagadish V,
Sprint-3	Database	USN-11	As a user, I can able to produce the user table	2	Medium	Gunasekhar C, Hari Prakash P
Sprint-3	Database	USN-12	As a user, I can able to integrate sendgrid and api key	3	High	Gunasekhar C, Hari Prakash P, Dhanu Shree P, Jagadish V
Sprint-3	Database	USN-13	As a user, I can able to integrate flask program with database	1	Medium	Gunasekhar C, Hari Prakash P
Sprint-3	Database	USN-14	As a user, I can able to integrate login/register page with database	2	High	Gunasekhar C, Hari Prakash P
Sprint-3	Database	USN-15	As a user, I can able to integrate product set with database	3	Medium	Gunasekhar C, Hari Prakash P
Sprint-4	Deployment	USN-16	As a user, I can able to deploy the images and resources in cloud object storage	3	Medium	Gunasekhar C, Hari Prakash P
Sprint-4	Deployment	USN-17	As a user, I can able to deploy the application to test using docker	4	Medium	Gunasekhar C, Hari Prakash P
Sprint-4	Deployment	USN-18	As a user, I can able to containerize the application to run on a cluster	2	Medium	Gunasekhar C, Hari Prakash P

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	9	7 Days	24 Oct 2022	30 Oct 2022	9	02 Nov 2022
Sprint-2	11	6 Days	31 Oct 2022	05 Nov 2022	11	08 Nov 2022
Sprint-3	11	6 Days	07 Nov 2022	12 Nov 2022	11	14 Nov 2022
Sprint-4	9	6 Days	14 Nov 2022	19 Nov 2022	9	19 Nov 2022

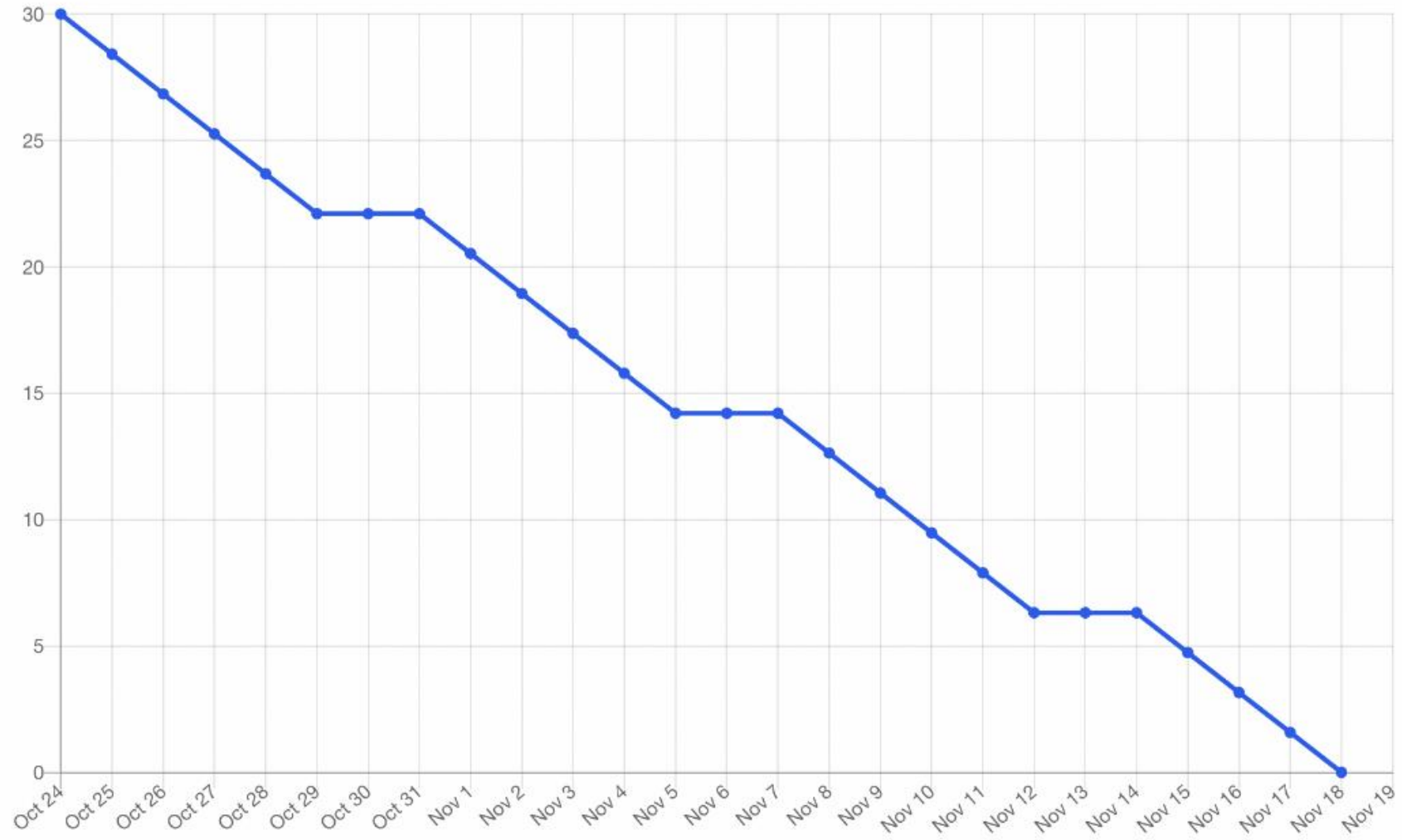
Velocity:

Imagine we have a 24-day sprint duration, and the velocity of the team is 30 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity}$$

$$\begin{aligned} AV &= 9+11+11+9/16 \\ &= 1.2 \end{aligned}$$

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>