

Project Planning Phase

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

Date	26 October 2023
Team ID	Team-592465
Project Name	Project – Online Shopper's Intentions using machine learning and artificial intelligence
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-2	Dashboard	USN-1	As a registered user, I want to have a personalized dashboard that displays my order history, recommended products, and account settings for a better shopping experience.	3	High	Sarvesh Ashish, Aarjav Jain
Sprint -3	User Preferences	USN-2	As a user, I want to set my preferences on the dashboard, such as language, region, and notification settings.	2	Medium	Sarvesh Ashish, Aarjav Jain
Sprint-4	Dashboard Analytics	USN-3	As a user, I want to view analytics on my dashboard, including predictions accuracy, personal shopping trends, and user engagement statistics.	3	High	
Sprint-2	Product Prediction	USN-4	. As a user, I want to enter product details and click "Predict" to determine if potential buyers are willing to purchase the product based on AI analysis.	5	High	Sarvesh, Aarjav Jain
Sprint-5	Product Search	USN-5	As a shopper, I want to search for products by keywords and filter search results based on various criteria to find and purchase items more efficiently.	2	High	Teertho Roy Choudhary

Sprint-6	Order History	USN-6	As a registered user, I want to view and track my order history, including order details, statuses, and delivery information.	3	High	Sarvesh Ashish, Teertho Roy Choudhary
Sprint-1	User Interaction	USN-7	As a user, I want to interact with the website's user interface (UI) to input data and request predictions.	4	High	V chandrakanth
Sprint-2	Input Validation	USN-8	As a user, I want the input data to be validated to ensure it meets required format and quality standards before model analysis.	3	medium	Aarjav jain

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	7	4 Days	18 Oct 2023	20 Oct 2023	7	20 Oct 2023
Sprint-2	10	4 Days	21 Oct 2023	23 Oct 2023	10	23 Oct 2023
Sprint-3	5	4 Days	24 Oct 2023	27 Oct 2023	5	26 Oct 2023
Sprint-4	5	4 Days	27 Oct 2023	29 Oct 2023	5	29 Oct 2023
Sprint-5	2	4 Days	30 Oct 2022	01 Nov 2023	2	01 Nov 2023
Sprint-6	4	4 Days	02 Nov 2023	04 Nov 2023	4	04 Nov 2023

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)

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

Sprint	Velocity
Sprint - 1	7
Sprint – 2	10
Sprint – 3	5
Sprint – 4	5
Sprint – 5	2
Sprint - 6	4

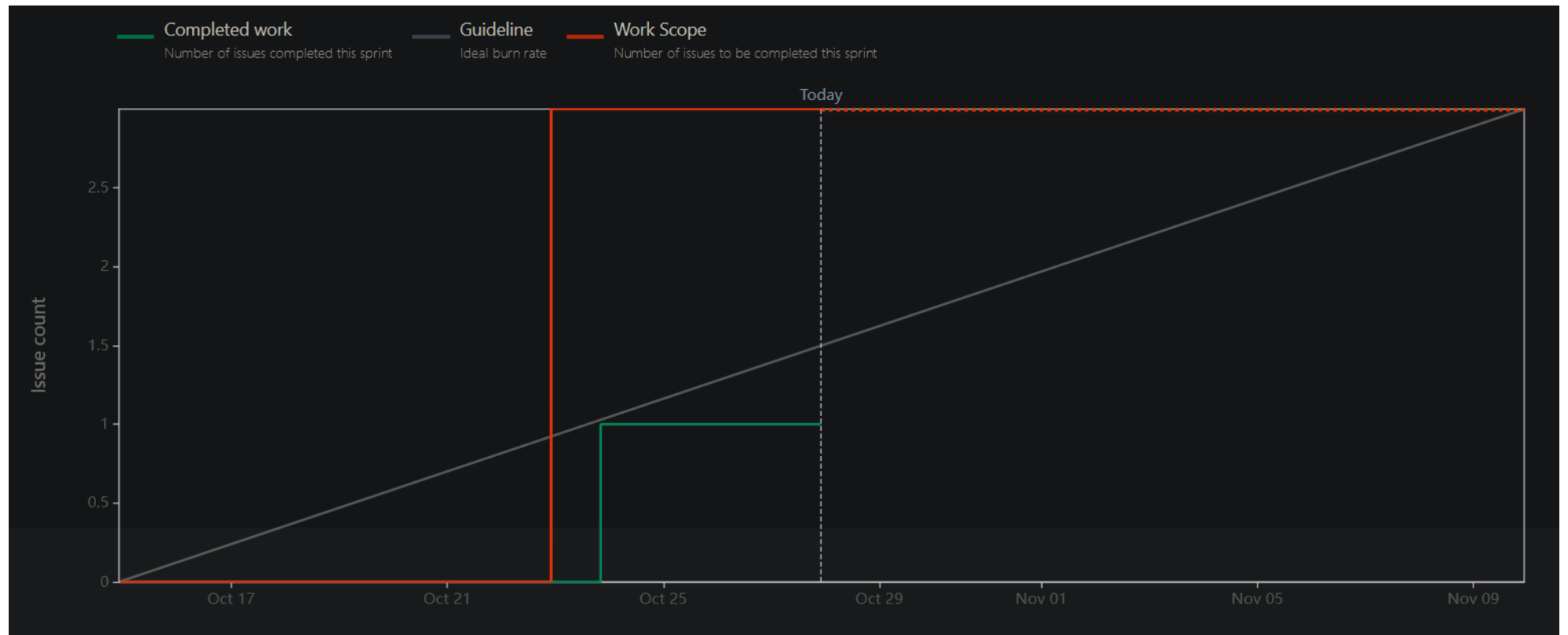
$$AV = (7 + 10 + 5 + 5 + 2 + 4) / 6 = 33 / 6$$

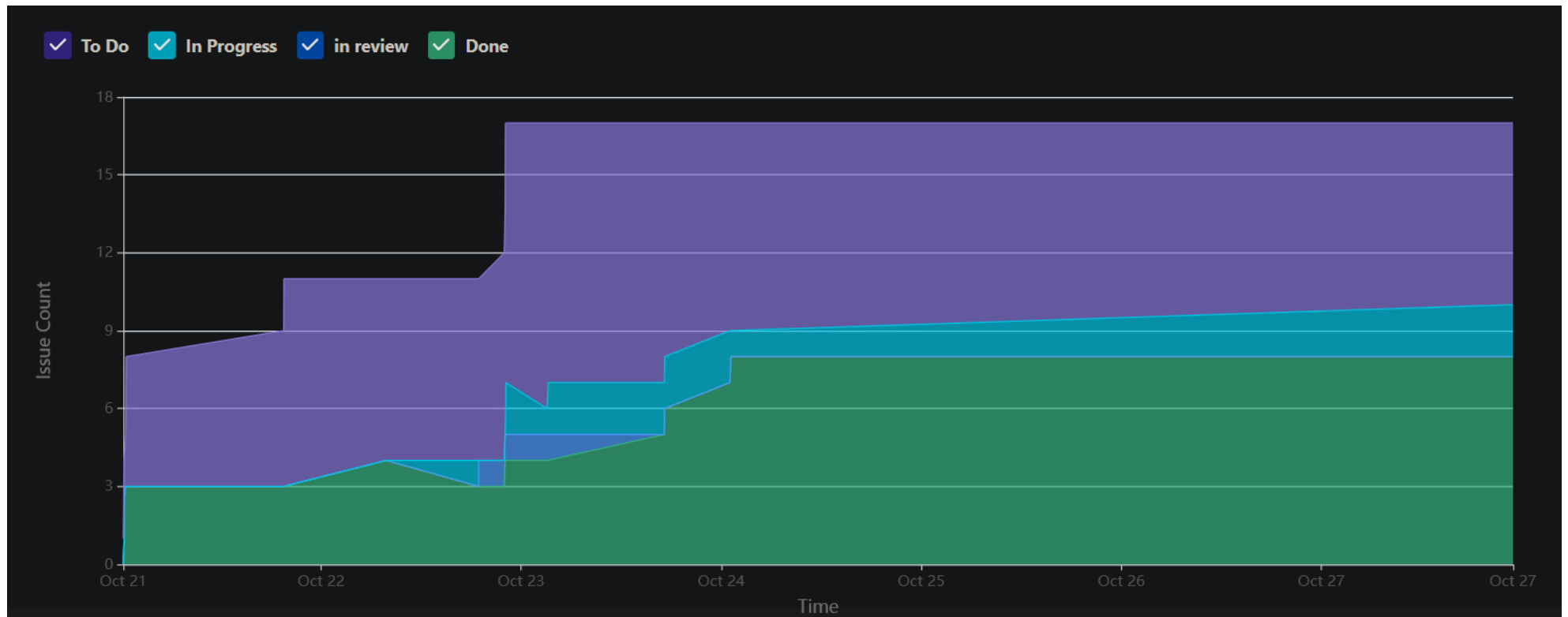
$$= 5.5$$

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.

Sprint	Total Story Points	Story Points Completed (as on Planned End Date)	Remaining Story Points
Sprint-1	7	7	0
Sprint-2	10	10	0
Sprint-3	5	5	0
Sprint-4	5	5	0
Sprint-5	2	2	0
Sprint-6	4	4	0





<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>