Agile Methodology and Project Planning

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

Date	18 October 2022
Team ID	PNT2022TMID47980
Project Name	Project Planning
Maximum Marks	8 Marks

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

Project of product backlog and sprint schedule.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -1	User Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Karthick T S, Kumaran K J
Sprint -1	User Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application.	1	High	Karthick T S
Sprint -2	User Registration using Facebook	USN-3	As a user, I can register for the application through Facebook.	2	Low	Karthick T S, Kumaran K J Karthiga Sree T G
Sprint -1	User Registration using Mail ID	USN-4	As a user, I can register for the application through Gmail.	2	Medium	Karthick T S, Kumaran K J
Sprint -1	User Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Karthick T S, Kumaran K J
Sprint -2	Dashboard	USN-6	As a user, I can see the product availability and connections in the dashboard.	1	Medium	Karthick T S
Sprint -3	Data Sync	USN-7	As a user, I can see and monitor the data in the corresponding datasets.	2	Medium	Karthick T S
Sprint -4	Data Report	USN-8	As a user, I can check and see the data report and the solution in the application or webpage.	2	High	Karthick T S

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	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 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)

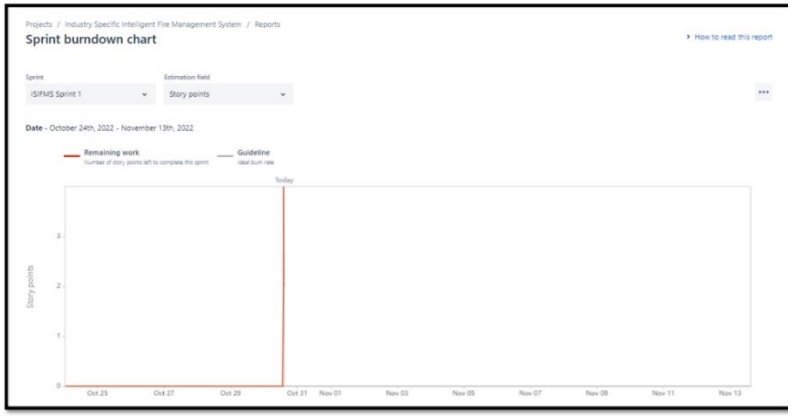
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

We have a 06-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).

$$\boldsymbol{AV = \frac{sprint\ duration}{velocity} = \frac{06}{06} = 1}$$

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