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

Date	28 October 2022
Team ID	1.2
Project Name	AI – Enhanced Intrusion Detection System
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	User Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Sivaraghavi U R
Sprint-1		USN-2	As a user, I will receive a confirmation email once I have registered for the application.	1	High	Sarath Rajan Senthilkumar
Sprint-2		USN-3	As a user, I can register for the application through Facebook.	2	Low	Sivaraghavi U R
Sprint-1		USN-4	As a user, I can register for the application through Gmail.	2	Medium	Sarath Rajan Senthilkumar
Sprint-1	User Login	USN-5	As a user, I can log into the application by entering an email and password.	1	High	Sivaraghavi U R

Sprint		USN				
Sprint-2		USN-6	As a user, I can reset my password if I forget it.	2	Medium	Sarath Rajan Senthilkumar
Sprint-3	Intrusion Detection System Setup	USN-7	As a user, I can configure the intrusion detection system with specific rules and parameters.	3	High	Sivaraghavi U R
Sprint-3		USN-8	As a user, I want the system to automatically update intrusion detection rules based on the latest threats.	2	High	Sarath Rajan Senthilkumar
Sprint-4	Real-time Alerting	USN-9	As a user, I should receive real-time alerts when the intrusion detection system detects suspicious activity.	3	High	Sivaraghavi U R
Sprint-4		USN-10	As a user, I can view a dashboard that displays the status of the intrusion detection system and recent alerts.	2	Low	Sarath Rajan Senthilkumar

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:

We have a 6-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)
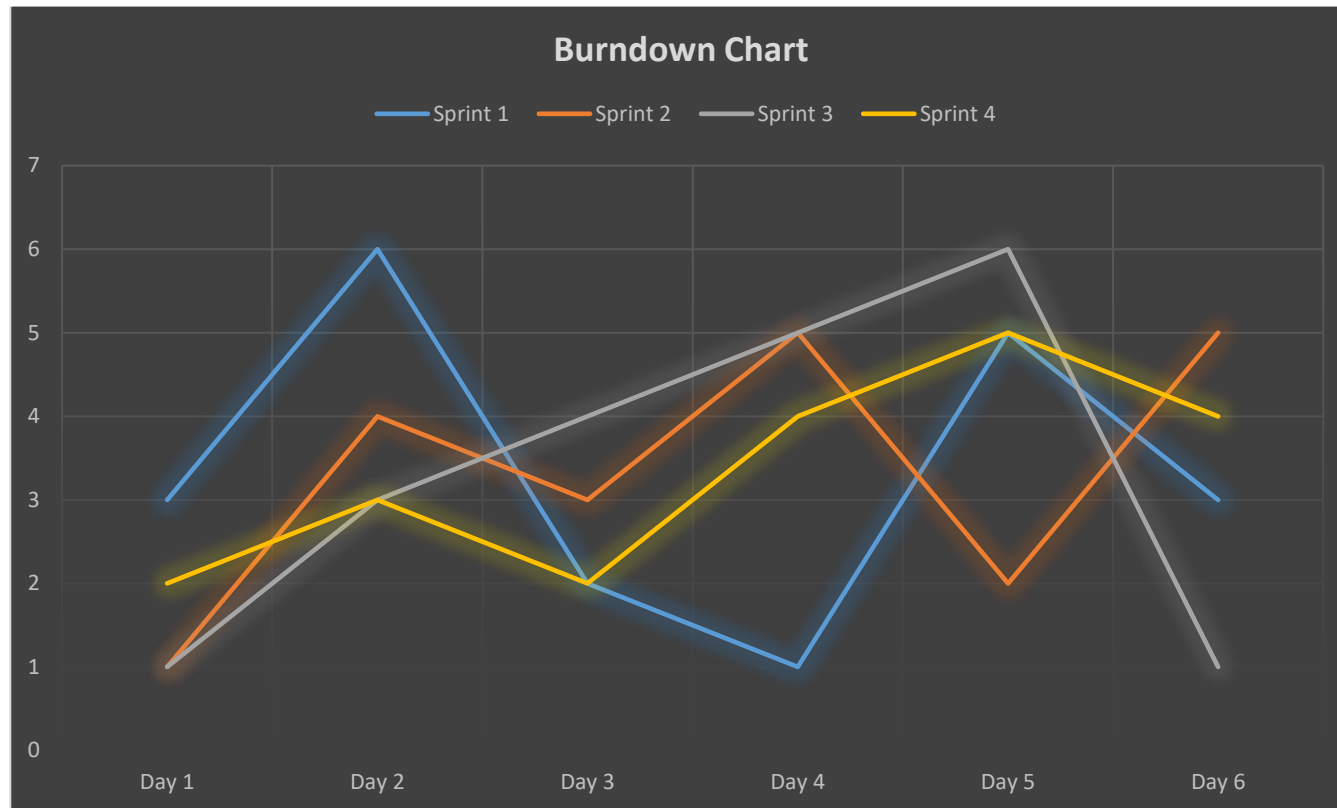
- Velocity per Sprint (total points completed in the sprint) is 20 points.
- Sprint Duration (number of days in the sprint) is 6 days.

Average Velocity (AV) = Velocity per Sprint / Sprint Duration AV = 20 points / 6 days ≈ 3.33 points per day (rounded to 2 decimal places).

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{6} = 3.33$$

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.

Burndown Chart

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