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

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.	2	High	Krishnamoorthy Bharath Kumar
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I haveregistered for the application	1	High	Jotheeswaran Mirunkannan
Sprint-2	Registration through Facebook	USN-3	As a user, I can register for the applicationthrough Facebook	2	Low	Krishnamoorthy Bharath Kumar
Sprint-1	Registration through Gmail	USN-4	As a user, I can register for the applicationthrough Gmail	2	Medium	Jotheeswaran Mirunkannan
Sprint-1	Login	USN-5	As a user, I can log into the application byentering email & password	1	High	Krishnamoorthy Bharath Kumar
Sprint-2	Dashboard	USN-6	As a user, I can view my dashboard and canperform stock prediction and analysis	3	High	Jotheeswaran Mirunkannan
Sprint-2	View list of stocks	USN-7	As a user I can view the list of categorized products and their details	4	High	Jotheeswaran Mirunkannan
Sprint-2	Search products	USN-8	As a user I can search through the product using barcode	2	Medium	Jotheeswaran Mirunkannan
Sprint-3	Report generation	USN-9	As a user I can generate reports based onproduct sales	5	High	Krishnamoorthy Bharath Kumar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Stock Prediction	USN-10	As a user I can predict out of stock and less stockfor a product	5	High	Krishnamoorthy Bharath Kumar
Sprint-4	Notification system	USN-11	As a user I can view notification for expired and out ofstock products	4	High	Jotheeswaran Mirunkannan
Sprint-4	Re-Ordering stock	USN-12	As a user I can reorder stocks based on predictions and notification	3	High	Krishnamoorthy Bharath Kumar
Sprint-2	Updating stock	USN-13	As a user I can add/delete products	5	High	Jotheeswaran Mirunkan nan

Sprint-4	Invoice generation	USN-14	As a user I can generate invoice calculating taxes,discount and calculate credits	4	High	Jotheeswaran Mirunkannan
Sprint-4	Discount system	USN-15	As a user I can provide discount based on credit points	3	Medium	Krishnamoorthy Bharath Kumar

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	6	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	16	6 Days	31 Oct 2022	05 Nov 2022	16	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	14	6 Days	14 Nov 2022	19 Nov 2022	14	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)

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

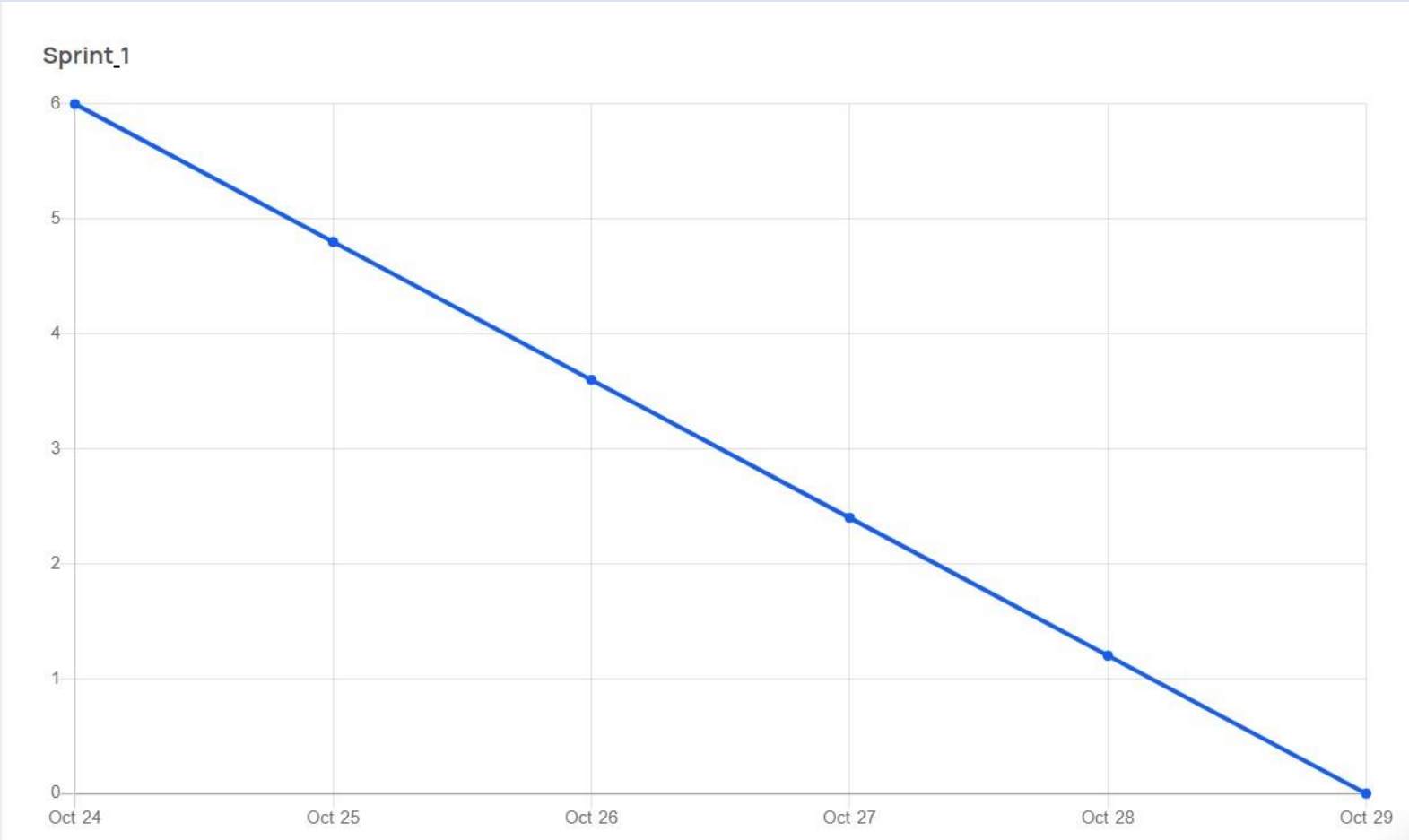| Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24	46/24=1.91

Sprint - 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.
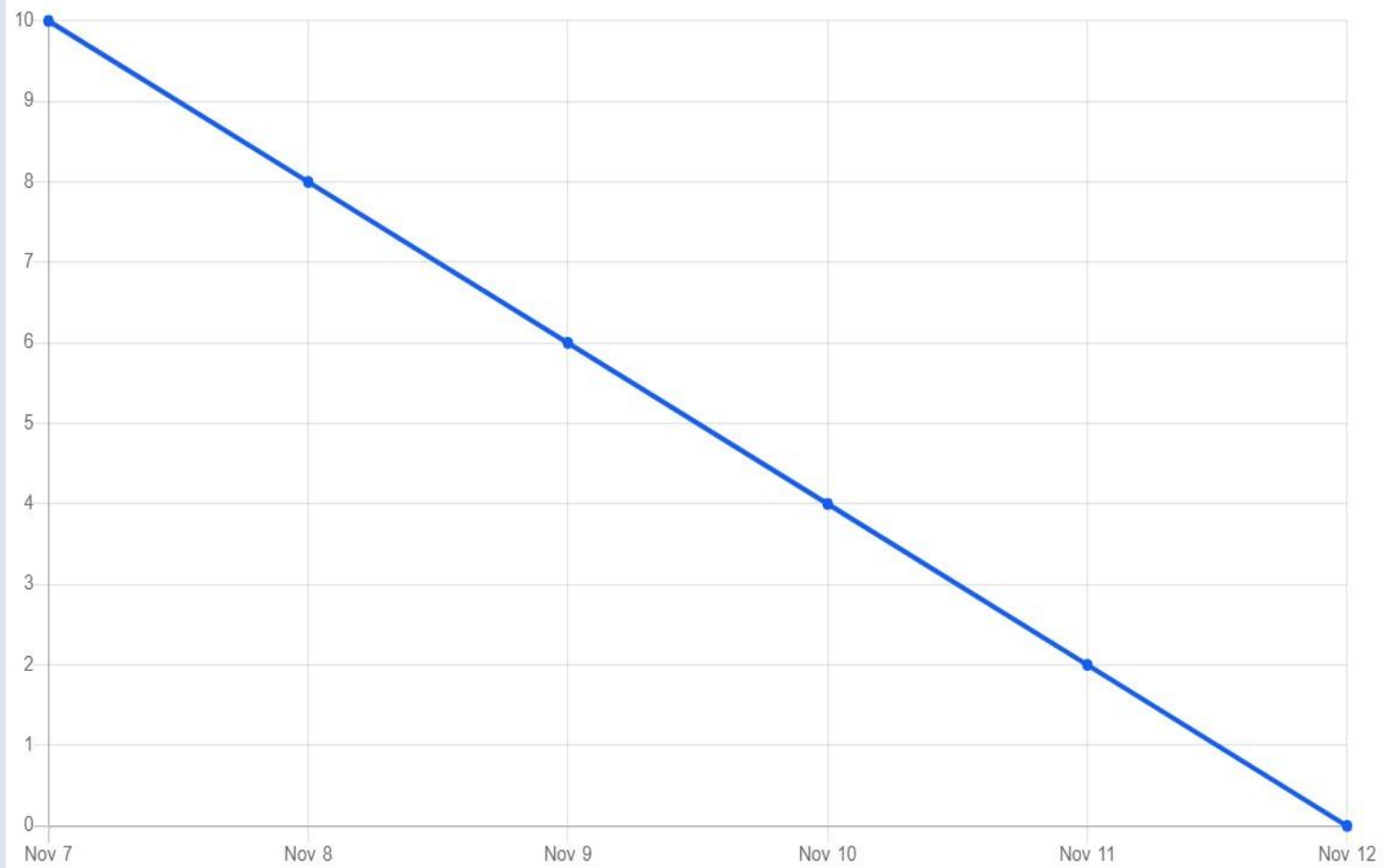
Sprint - 4:

Estimated Effort:

Sprint_1

Sprint - 1:

Sprint - 6:

Sprint_2

	Oct 31	Nov 1	Nov 2	Nov 3	Nov 4	Nov 5

Sprint - 7:

Sprint_3

Sprint - 8:

Sprint_4

Overall burndown chart:

Overall