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

Date	18 October 2022
Team ID	PNT2022TMID39837
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	8 Marks

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 (Parent Mobile User)	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	3	High	Yaakobu stephin.D
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Suriya.s
Sprint-2	User Interface	USN-3	As a user, I can register for the application through Facebook	3	Low	Suriya.S
Sprint-1	Data Visualization	USN-4	As a user, I can register for the application through Gmail	3	Medium	Yaakobus tephin.D
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	3	Low	Sunilkum ar.s
Sprint-2	Dashboard	USN-6	We need to be able to view the function that can perform	4	High	Prasath.j
Sprint-2	Notification	USN-7	Using minimum time we should be able to notify their parent and guardian	4	High	Suriya.S
Sprint-2	Store data	USN-8	We need to continuously store location data into the database	3	Medium	Yaakobust ephin.D
Sprint-3	Web UI	USN-9	We all will need a friendly interface to view and access the resource easily	3	Medium	Sunilkumar .s

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Registration (Parent Web User)	USN-10	By entering email and password we can log into the application as a user	3	High	Prasath.j
Sprint-2	Login	USN-11	Using minimum time we need to login to registered account via web page	3	High	Sunilkumar.s
Sprint-4	Web UI	USN-12	To easily view and access the resources we need a user friendly interface	3	Medium	Prasath.j

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)

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

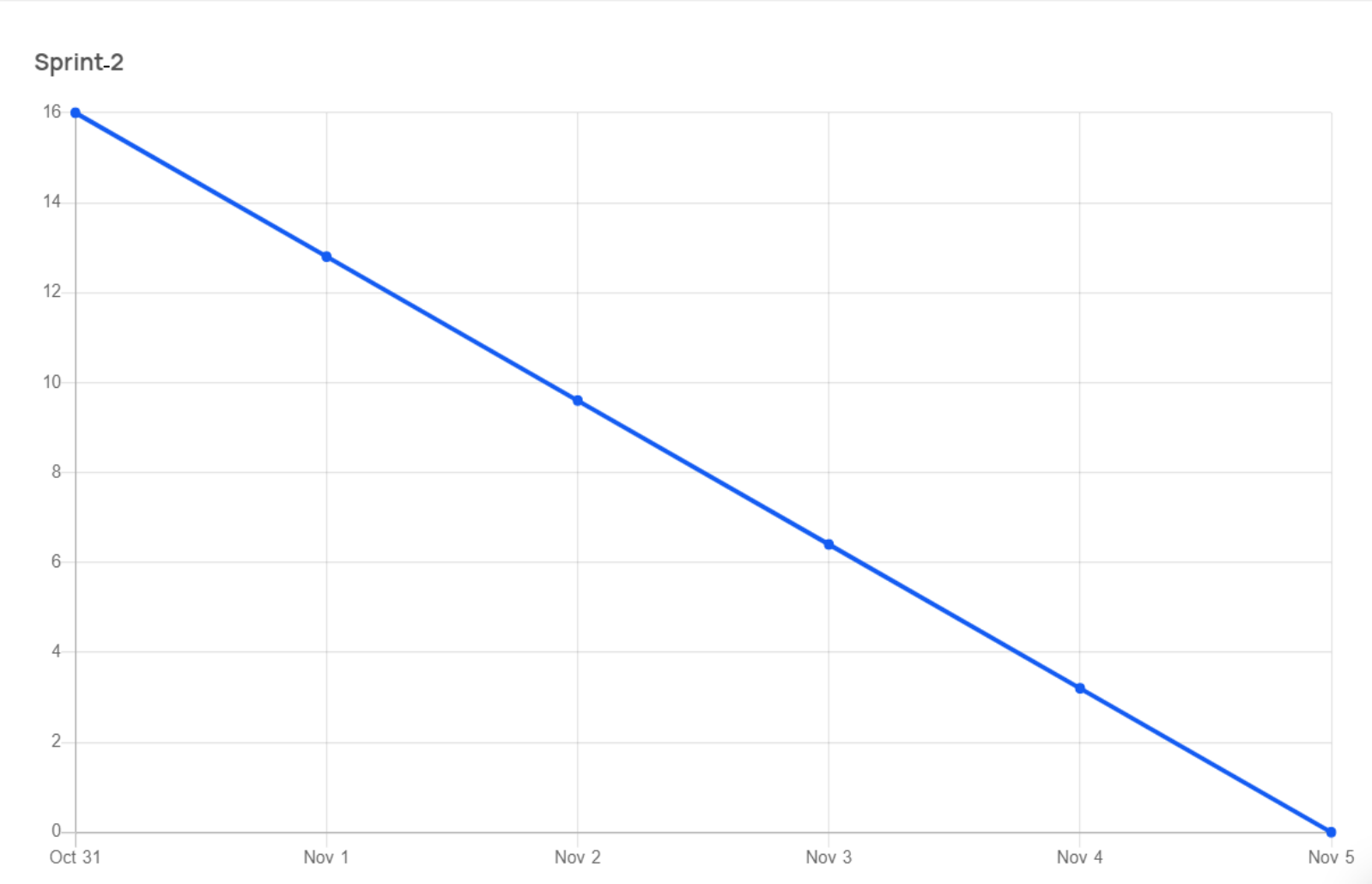| Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	16	6 Days	16/6=2.67
Sprint-3	10	6 Days	10/6=1.67
Sprint-4	14	6 Days	14/6=2.33
Total	46	24 Days	46/24=1.91

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.
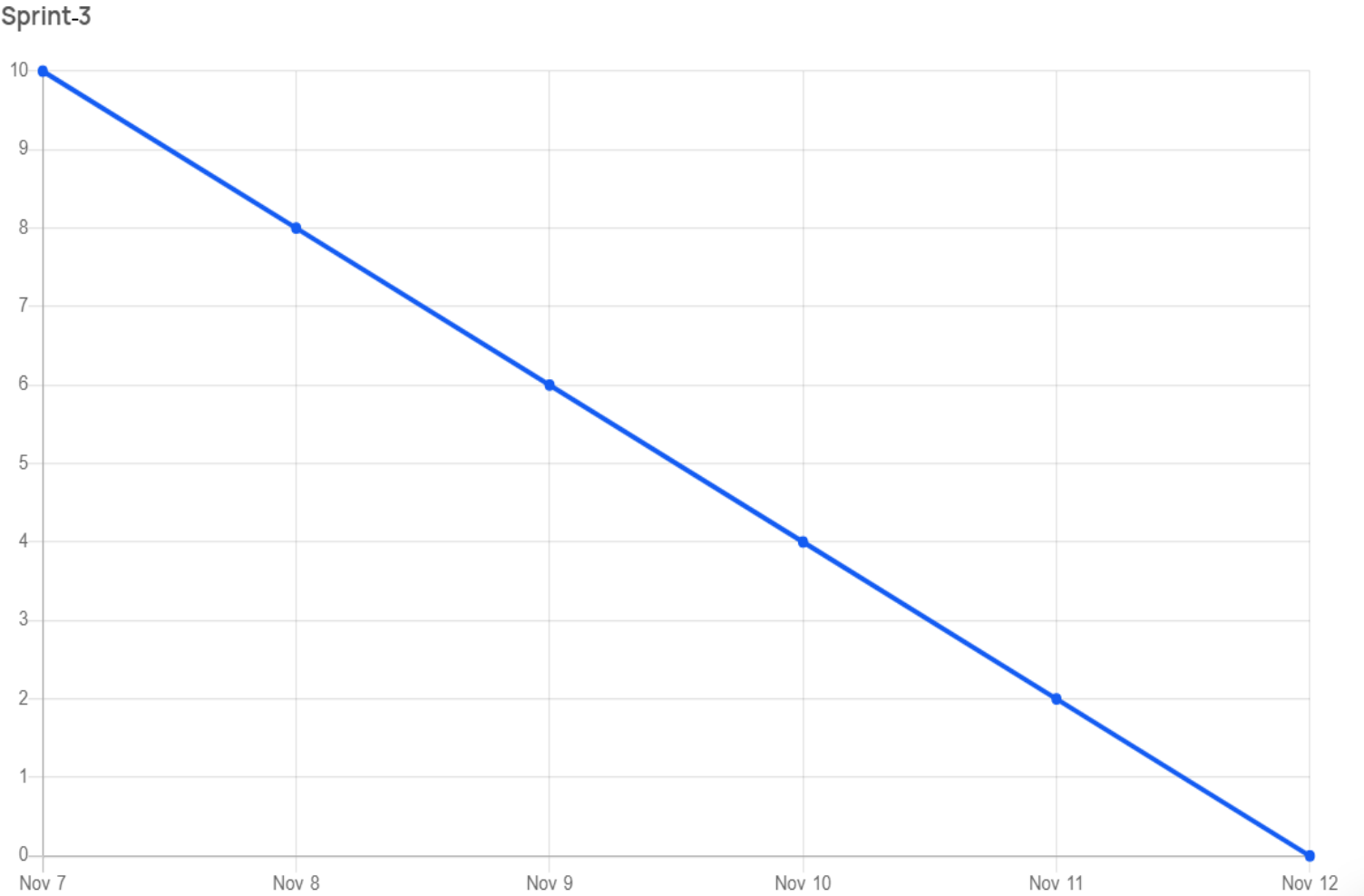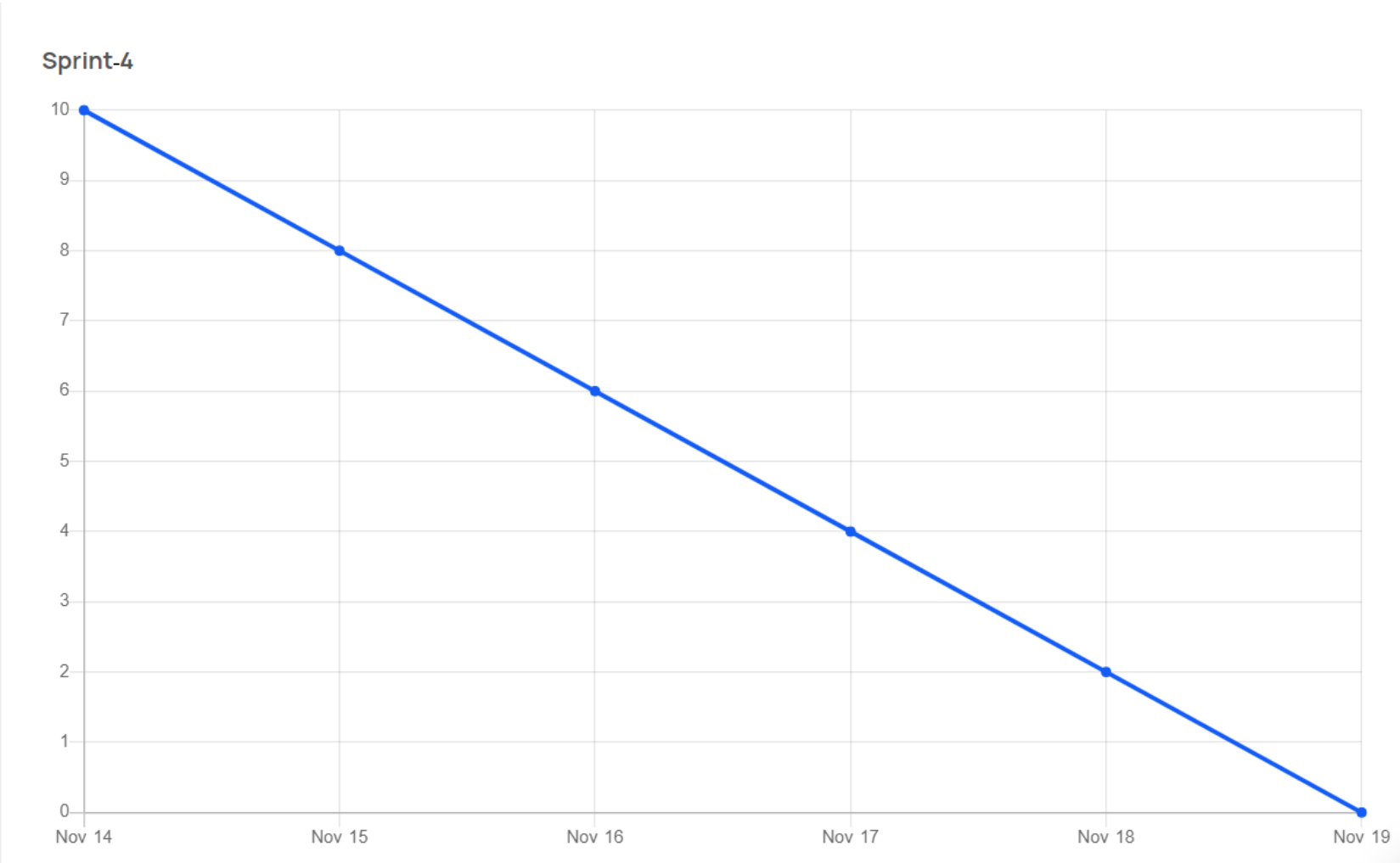
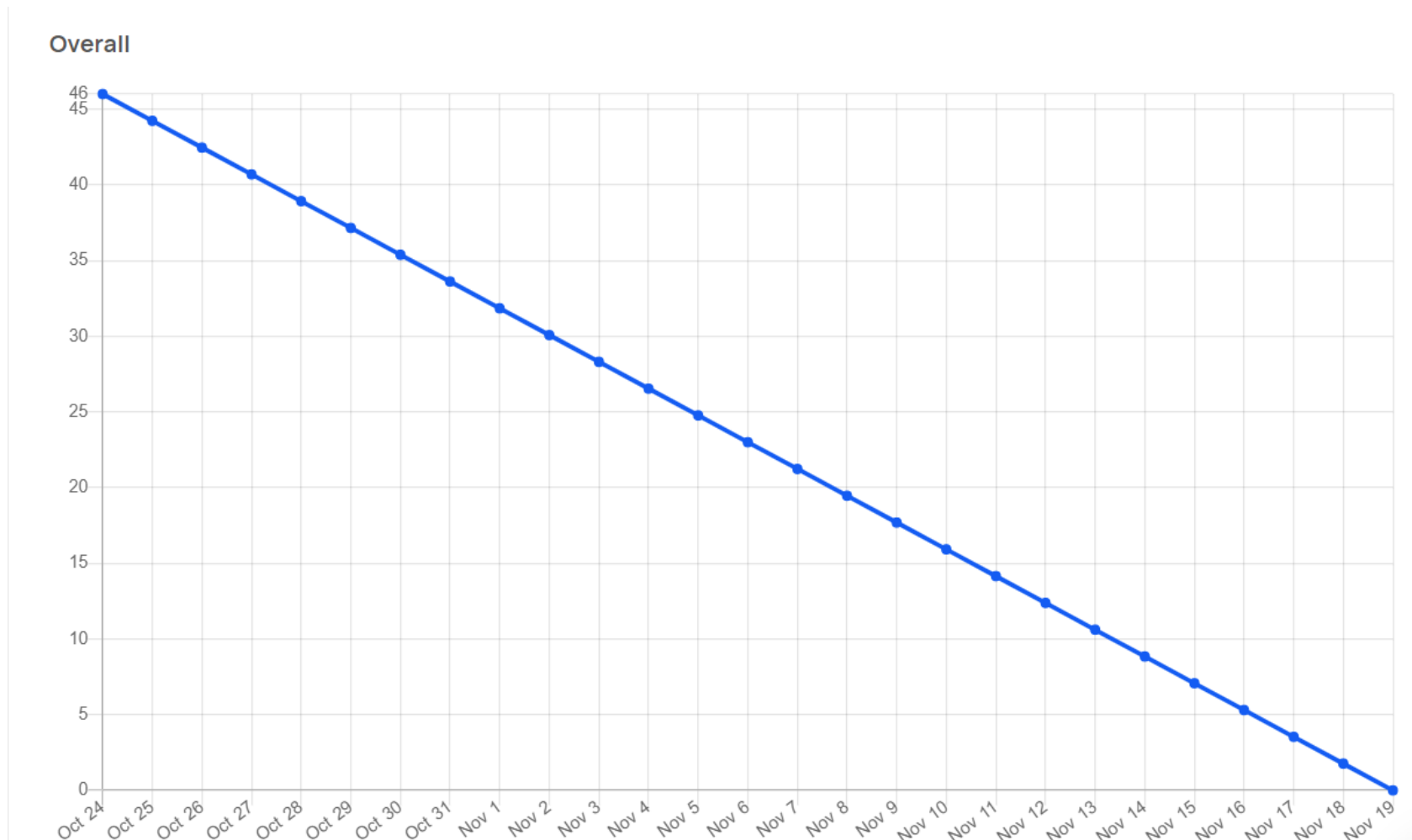**Estimated Effort:**

Sprint - 1:
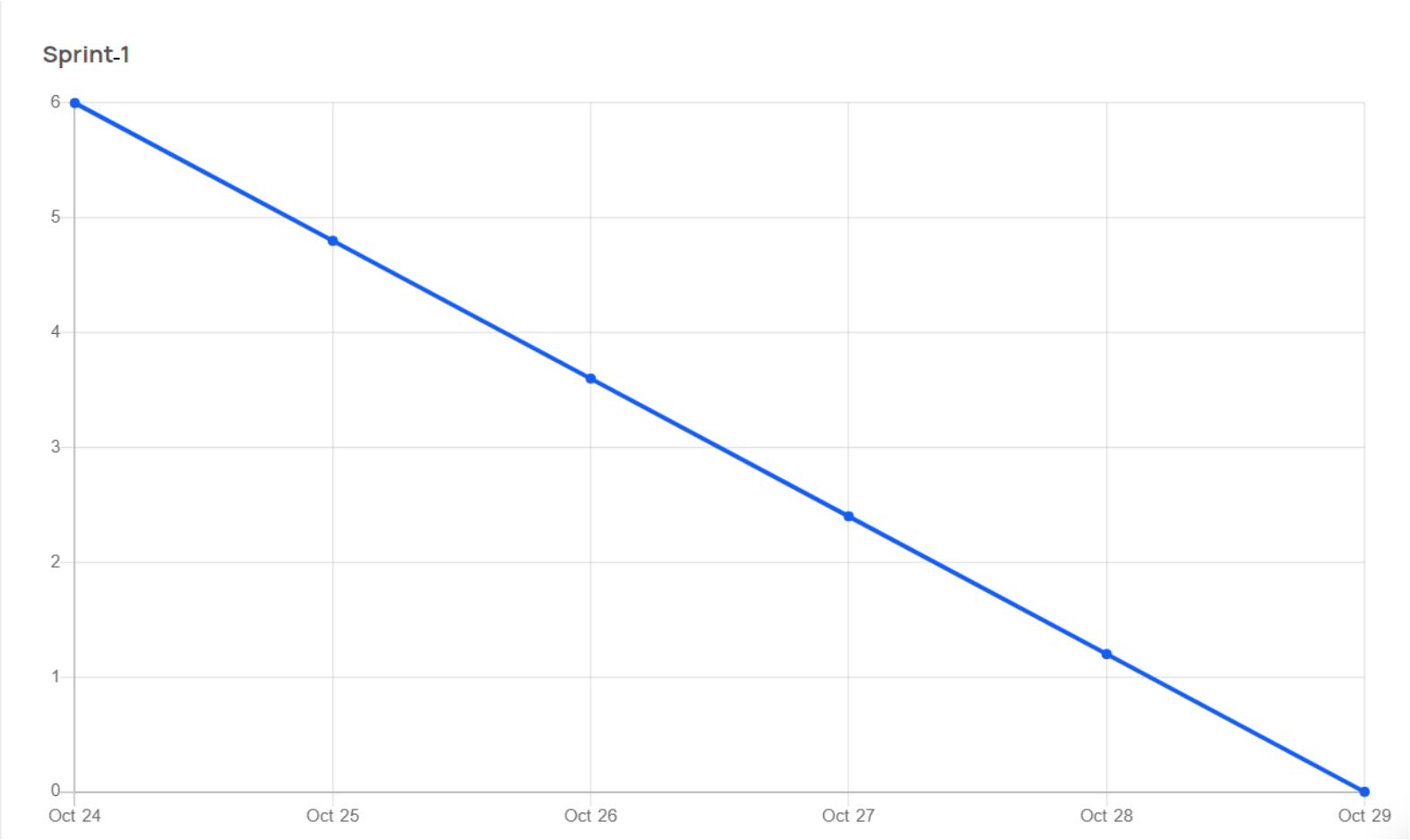
Sprint - 2:

Sprint-2

Sprint - 3:

Sprint-3

Sprint - 4:

Overall burndown chart:

Project Planning Tool:

	OCT				OCT						NOV								NOV				
	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14

Sprints — IBSGFCMN Sprint 1 — IBSGFCMN Sprint 2, IBSGFCMN Sprint 3, IBSGFCMN Sprint 4

> ⚡ IBSGFCMN-13 Registration

> ⚡ IBSGFCMN-14 Confirmation Email

> ⚡ IBSGFCMN-15 login

> ⚡ IBSGFCMN-16 Dashboard

> ⚡ IBSGFCMN-17 Authentication

> ⚡ IBSGFCMN-18 Notification

> ⚡ IBSGFCMN-19 Store data

> ⚡ IBSGFCMN-20 Communication

> ⚡ IBSGFCMN-25 IOT device

> ⚡ IBSGFCMN-26 Node Red

> ⚡ IBSGFCMN-27 User Interface

> ⚡ IBSGFCMN-28 Geofencing

Milestones and Activities:

MILESTONES	ACTIVITIES
Login	• Login into Dashboard
Dashboard	• View activity • Perform Predictions
Data Visualizaion	• Register on Gmail • Information Recoded
Store Data	• Location • Data Base • Continuously store
Notification	• Anytime • Notify • Stay updated
Web UI	• Friendly Interface • Access the resources