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

Date	22 November 2022
Team ID	PNT2022TMID14667
Project Name	Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	8 Marks

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

Use the below template to create a product backlog and sprint schedule

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, and password, and confirming my password.	4	High	Mohanambikai
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	Mohanambikai
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	Mohanambikai
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	Monika Devi
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	Monika Devi
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	Narmadha
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	10	Medium	Narmadha
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parents	6	Low	Sai Gnana Sri

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	IoT Device – Watson communication	USN-1,4	The data from IoT device should reach IBM Cloud	7	Medium	Lohitha and Sai Gnana Sri
Sprint-3	Node RED- Cloudant DB communication	USN-5,2	The data stored in IBM Cloud should be properly integrated with Cloudant DB	7	High	Lohitha and Sai Gnana Sri
Sprint-4	User – WebUI interface	USN-1,4	The Web UI should get inputs from the user	6	High	Narmadha Monika Devi
Sprint-4	Geofencing	USN-2,3,5	The geofencing of the child should be done based on the geographical coordinates	7	High	Sai Gnana Sri Mohanambikai

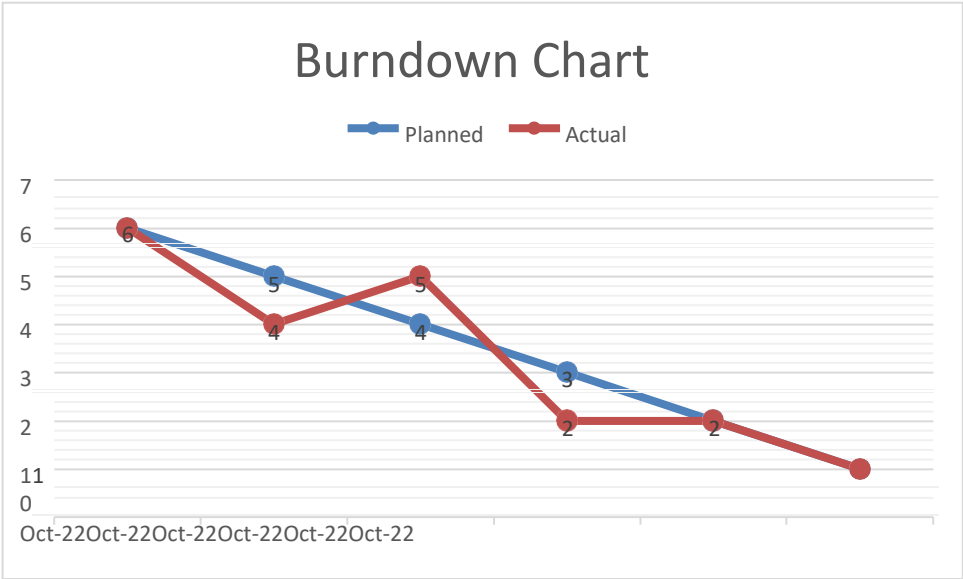**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

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)

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

Burndown Chart:

Burndown Chart

Planned   Actual

	Time		Tasks	
	Day	Dates	Planned	Actual
3	Mon	Oct-22	6	6
4	Tue	Oct-22	5	4
5	Wed	Oct-22	4	5
6	Thurs	Oct-22	3	2
7	Friday	Oct-22	2	2
8	Saturday	Oct-22	1	1