

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID48274
Project Name	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 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, password, and confirming my password.	5	High	Kaviyapriya.M, Ramya.P
Sprint-1	Confirmation Email	USN-2	As a user, I will receive confirmation email once I have registered for the application.	4	High	Nandhini.R, Nagarani.S
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail.	4	Medium	Ramya.P, Nagarani.S
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password.	4	High	Kaviyapriya.M, Nandhini.R
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform.	3	Medium	Ramya.P
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	Kaviyapriya.M
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	10	High	Nandhini.R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Communication	USN-1	I should be able to communicate with my parents.	5	High	Nandhini.R, Nagarani.S
Sprint-3	Sensors	USN-2	As a user, I can sensing the temperature, humidity and some values through gadget.	5	Medium	Kaviyapriya.M
Sprint-3	IoT Device – Watson communication	USN-3	The data from IoT device should reach IBM Cloud	5	High	Nandhini.R
Sprint-3	Node RED- Cloudant DB communication	USN-4	The data stored in IBM Cloud should be properly integrated with Cloudant database	5	Low	Ramya.P
Sprint-4	Web UI interface	USN-1	The Web UI should get the inputs from the user.	10	High	Kaviyapriya.M
Sprint-4	Geofencing	USN-2	The geofencing of the child should be done based on the geographical coordinates.	10	High	Nagarani.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	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

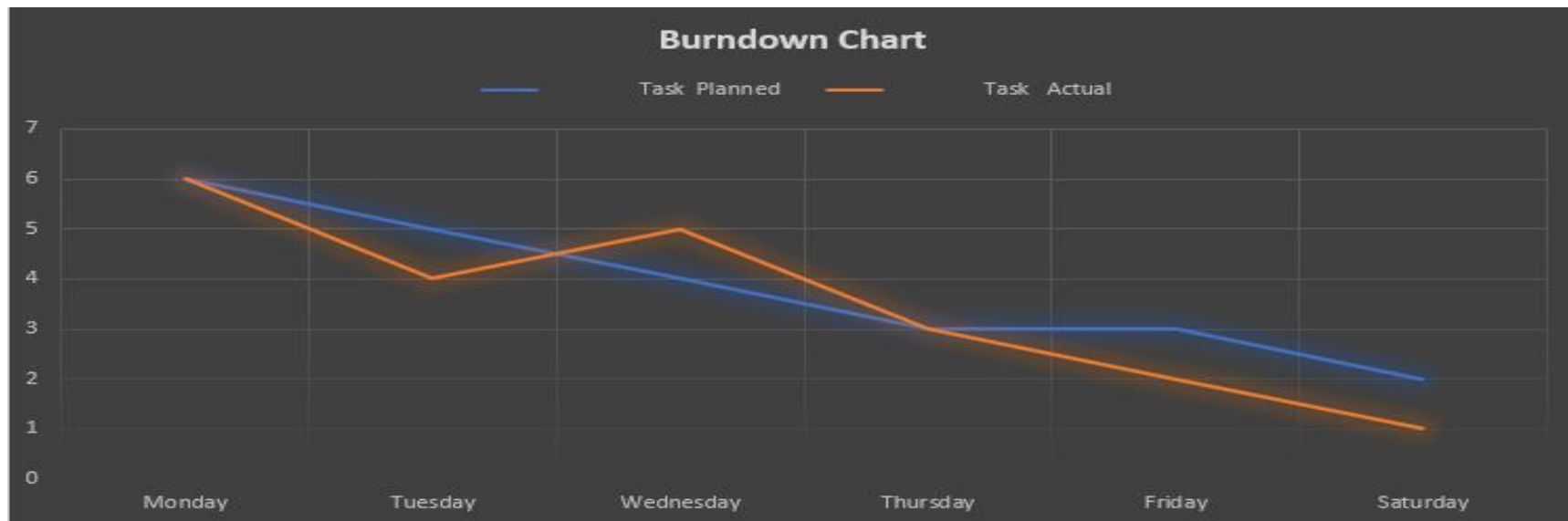
## Velocity:

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)

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

## 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.



	A	B	C	D	
1	Time		Task		
2	Day	Date	Planned	Actual	
3	Monday	24-10-2022	6	6	
4	Tuesday	25-10-2022	5	4	
5	Wednesday	26-10-2022	4	5	
6	Thursday	27-10-2022	3	3	
7	Friday	28-10-2022	3	2	
8	Saturday	29-10-2022	2	1	
9					