Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID01305
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring & 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	Stimulation Creation	USN-1	Create IBM Watson IoT Device	2	Medium	Hemant Saranraj & Abernesh
Sprint-2	Software	USN-2	Create and configure IoT Device with Node-RED	3	High	Adhithyan & Dhuvarakesh
Sprint-2	Software	USN-3	Workflow for IoT scenarios using local node red	3	High	Hemant Saranraj & Adhithyan
Sprint-3	MIT app inventor dashboard	USN-4	Application for the project using MIT app	3	High	Dhuvarakesh & Abernesh
Sprint-3	MIT app inventor dashboard	USN-5	Design the model and test the app	2	Medium	Adhithyan & Dhuvarakesh
Sprint-4	Web UI	USN-6	To make the user interact with the software	3	High	Hemant Saranraj & Abernesh

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	15	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	16	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	15	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	17	19 Nov 2022

Velocity:

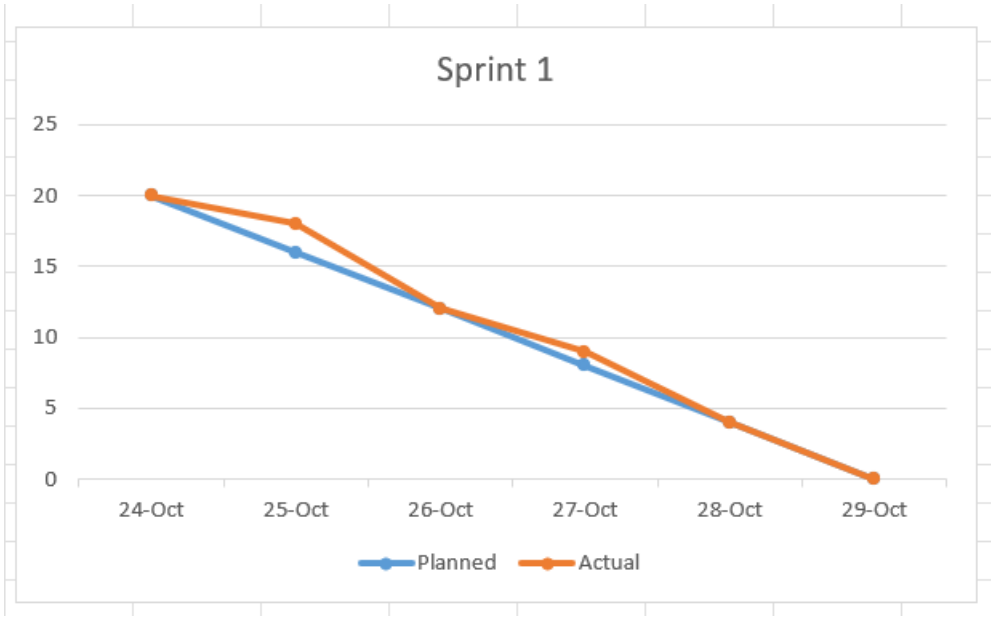
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

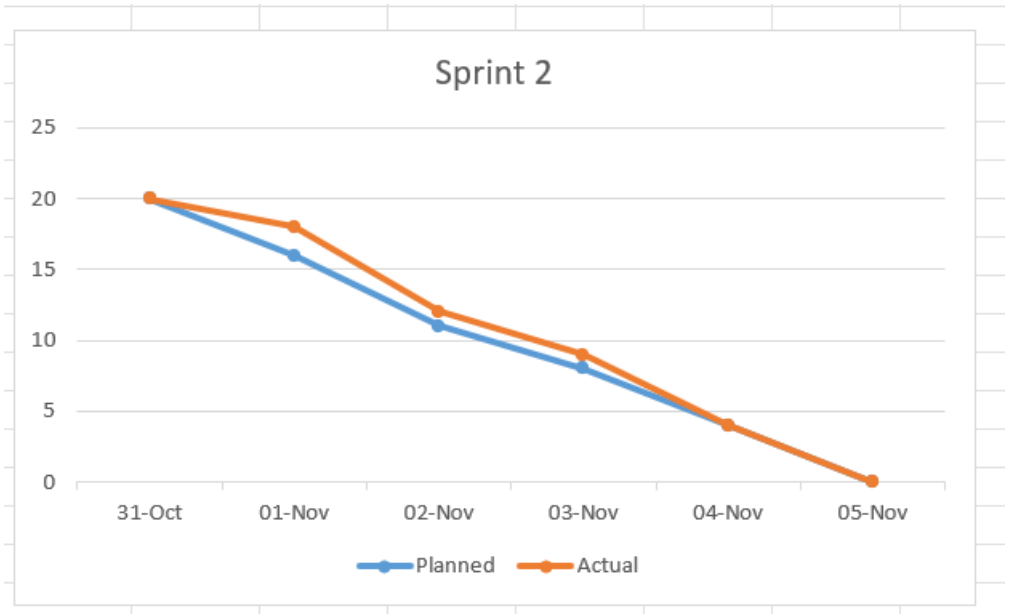
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Sprint	Total Story Points	Duration	Average Velocity
Sprint-1	**20**	**6**	**20/6=3.33**
Sprint-2	**20**	**6**	**20/6=3.33**
Sprint-3	**20**	**6**	**20/6=3.33**
Sprint-4	**20**	**6**	**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.




Sprint 2
25
20
15
10
5
0
31-Oct
01-Nov
02-Nov
03-Nov
04-Nov
05-Nov
Planned
Actual