Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID30240
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
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	Installation	USN-1	The technician must install the smart beacons at points to ensure the entire area of the plant is covered.	3	Medium	Devakumar M
Sprint-1	Data Gathering	USN-2	The beacons obtain the temperature of their respective area using sensors.	1	Low	Devakumar M
Sprint-2	Data Sync	USN-3	The beacons send their data to the cloud in the real time which is in turn sent to nearby wearable devices and the administrators dashboard.	3	Medium	Udhayasankar V
Sprint-2	Wearable device display	USN-4	The wearable devices should display the data sent by beacons within the area.	1	Low	Udhayasankar V
Sprint-3	SMS Notifications	USN-5	The user is sent a notification to their phone from the wearable device through an API when the area they are in reaches dangerous temperatures.	4	High	Arunkumar S
Sprint-4	Admin Dashboard	USN-6	The beacons send the data through the cloud to a dashboard which is run by the administrator.	4	High	Arvin Raj P

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

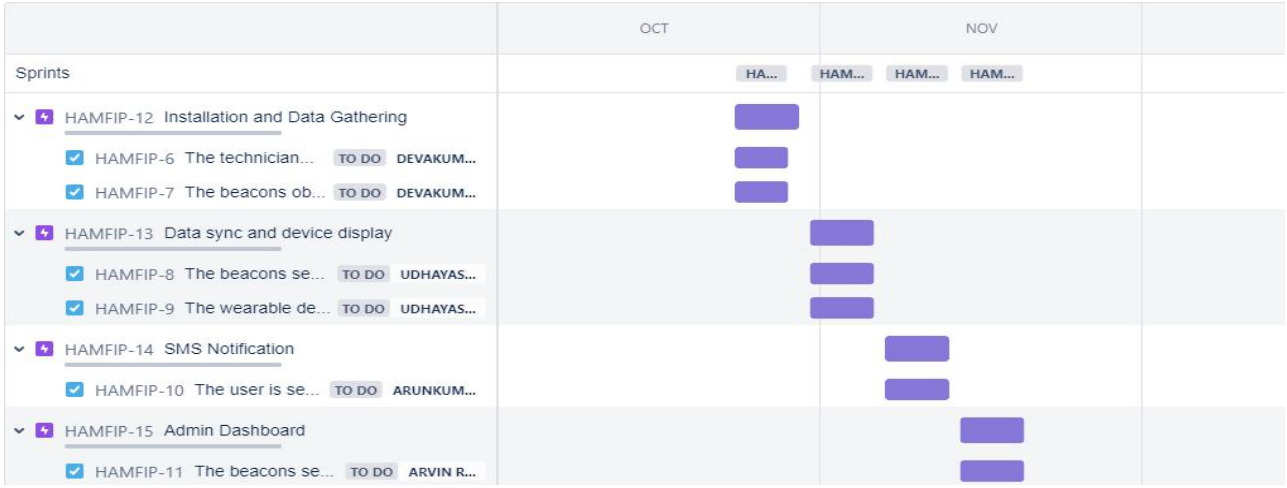
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

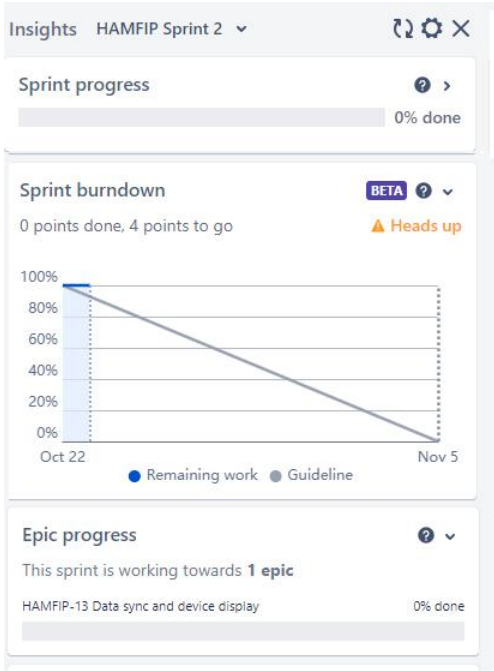
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

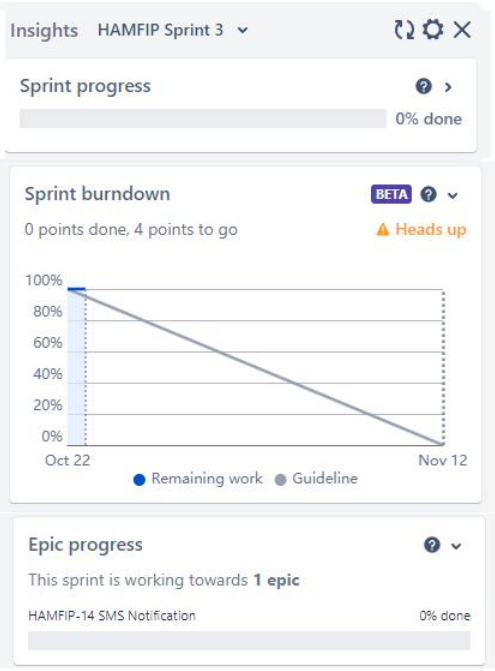
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

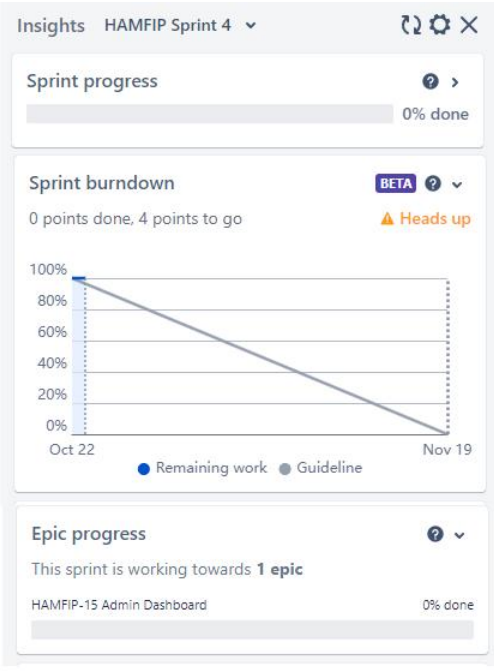
Roadmap

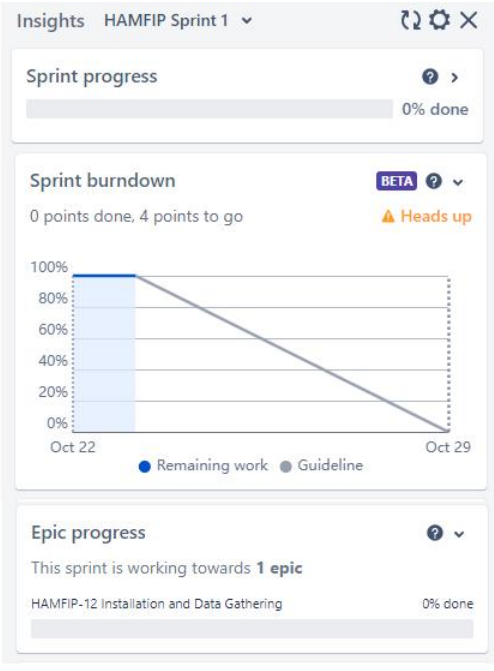


Burndown Chart:









Sprint 2

Udhayasankar V

Sprint 3

Arunkumar S

Sprint 4

Arvin Raj P

Sprint 1

Devakumar S