

## Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID54458
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	Vasanth M S
Sprint-1	Data Gathering	USN-2	The beacons obtain the temperature of their respective area using sensors.	1	Low	Vasanth M S
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	Siddharth M
Sprint-2	Wearable device display	USN-4	The wearable devices should display the data sent by beacons within the area.	1	Low	Siddharth M
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	Sujidhan S J
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	Thirunavukkarasu K

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

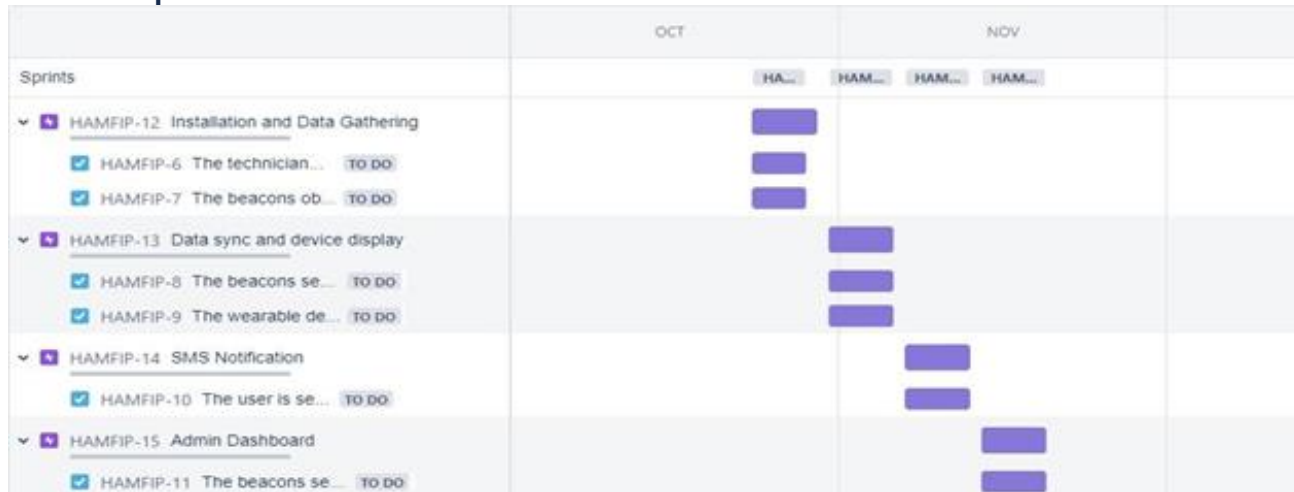
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20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

### Velocity:

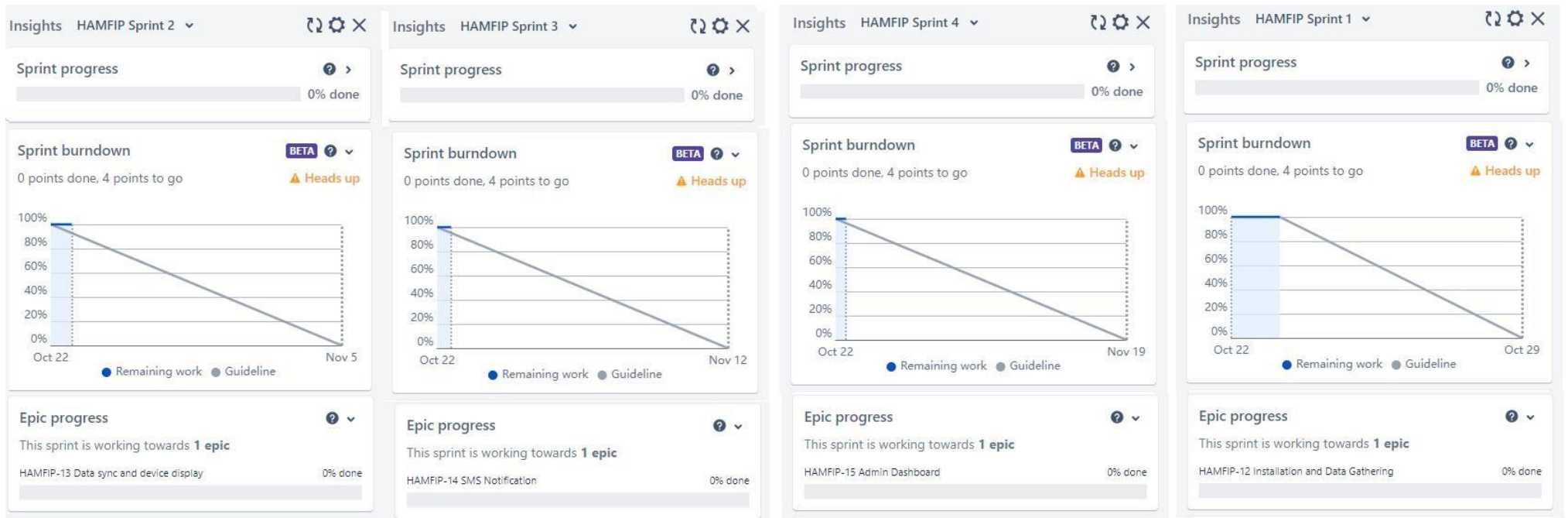
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

### Roadmap



## Burndown Chart:



### Sprint 2

Siddharth M

### Sprint 3

Sujidhan S J

### Sprint 4

Thirunavukkarasu K

### Sprint 1

Vasanth M S