

## Project Planning Phase

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

Team ID	PNT2022TMID14540
Project Name	Project - Signs with smart connectivity for better road safety
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	IDE	USN-1	Installing all the softwares which are required like python IDE	2	Low	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-1	Resources	USN-2	Initialization Create and initialize accounts in various public APIs like Open Weather API.	5	Low	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-1		USN-3	Write a Python program that outputs results given the inputs like weather	13	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-2		USN-4	Checking the simulation with conditions and Coding.	5	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-2	Software	USN-5	Working with IBM Watson IOT and Node Red integration	2	High	Sulana S ChandarShekar,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Deepika J,Kavyaa G,Varshini S
Sprint-2			Test the above created IOT devices and workflow	13	High	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-3	Application Development	USN-6	Using MIT App Inventor create an App	13	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-3			Integrate the MIT app with node-red	5	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-3			Testing the Application	2	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-4	Interface	USN-7	Displaying speed Limitations	2	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-4			Displaying traffic diversion Signs depending on the road conditions	5	Medium	Sulana S ChandarShekar, Deepika J,Kavyaa G,Varshini S
Sprint-4			Testing of the user interface with the software	13	Medium	Sulana S ChandarShekar, Deepika

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						J,Kavyaa G,Varshini 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	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

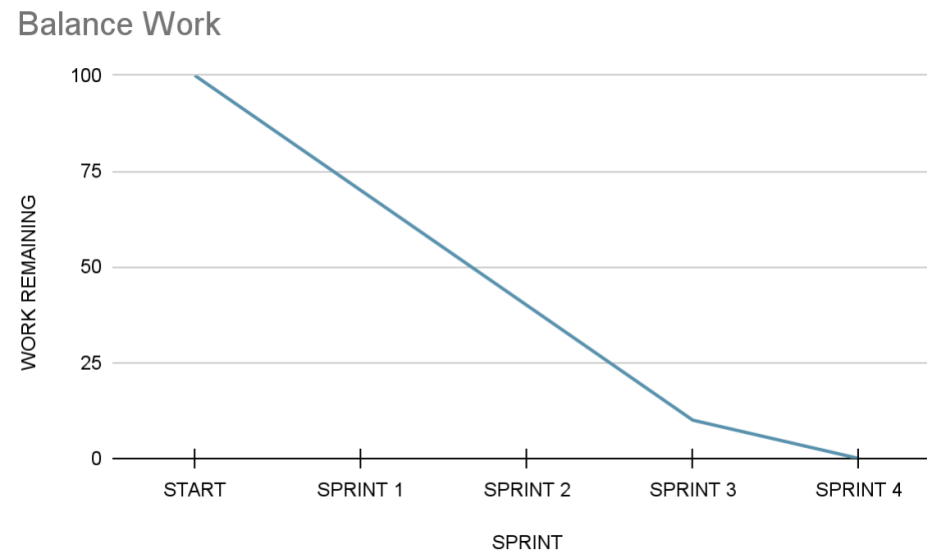
#### Velocity:

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)


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


### 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.



Sprint 2 (example)

 **ibm1**  
Software project

 Back to project

Reports

Overview

Burnup report

Sprint burndown chart

Velocity report

Cumulative flow diagram

Cycle time report

Deployment frequency report

You're in a team-managed project  
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Sprint  
IBM1 Sprint 2 ▾

Estimation field  
Story points ▾

⋮

Date - October 31st, 2022 - November 5th, 2022

