

## Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID23164
Project Name	Project - Signs with smart connectivity for better road safety
Maximum Marks	8 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Resources Initialization	USN-1	Create and initialize accounts in various public APIs like Open Weather API.	1	Low	S.Nithyakalyani V.Harshini R.Sneha R.Akshaya vairalaxmi
Sprint-1	Local Server/Software Run	USN-2	Write a Python program that outputs results given the inputs like weather and location.	1	Medium	S.Nithyakalyani V.Harshini R.Sneha R.Akshaya vairalaxmi
Sprint-2	Push the server/software to cloud	USN-3	Push the code from Sprint 1 to cloud so it can be accessed from anywhere	2	Medium	S.Nithyakalyani V.Harshini R.Sneha R.Akshaya vairalaxmi



Sprint-3	Hardware initialization	USN-4	Integrate the hardware to be able to access the cloud functions and provide inputs to the same.	2	High	S.Nithyakalyani V.Harshini R.Sneha R.Akshaya vairalaxmi
Sprint-4	UI/UX Optimization	USN-5	Optimize all the shortcomings and provide	2	Medium	S.Nithyakalyani V.Harshini R.Sneha R.Akshaya vairalaxmi

Sprint	Functional Requirement	User Story Number	User Story / Task	Story Points	Priority	Team Members
	& Debugging		better user experience.			S.Nithyakalyani V.Harshini R.Sneha R.Akshaya vairalaxmi

### 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	31 Oct 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	14 Nov 2022
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### Velocity :

The average velocity(AV) per iteration unit (story points per day) can be defined as sprint duration by velocity (points per sprint)

$$( AV = \text{Sprint duration} / \text{Velocity} )$$

Given :

Sprint duration = 6days Velocity = 20

$AV = 6 / 20 = 0.3$

**AV = 0.3**



Burndown Chart :

