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

Date	29 October 2022
Team ID	PNT2022TMID40472
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 (Epic)	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 OpenWeatherMap API.	1	Low	Vinoth.E Hariharan.C Thiyagu.E Logeshvaran.T
Sprint-1	Local Server/Software Run	USN-2	Write a Python program that outputs results given the inputs like weather and location	2	Medium	Vinoth.E Hariharan.C Thiyagu.E Logeshvaran.T
Sprint-2	Push the server/software to cloud	USN-3	Push the code from Sprint1 to cloud so it can be accessed from anywhere	2	Medium	Vinoth.E Hariharan.C Thiyagu.E Logeshvaran.T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
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	Vinoth.E Hariharan.C Thiyagu.E Logeshvaran.T
Sprint-4	UI/UX Optimization & Debugging	USN-5	Optimize all the short comings and provide better user experience	2	Low	Vinoth.E Hariharan.C Thiyagu.E Logeshvaran.T

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

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)

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

Burndown Chart: