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

Date	30 October 2022
Team ID	PNT2022TMID21659
Project Name	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	IDE	USN-1	Installing all the softwares which ARE required like pythonIDE	2	High	Lokeshwaran S Logeshwaran M
Sprint-1	Checking the simulation with conditions and coding	USN-2	Simulating the circuits and experimenting and Write a Python program that outputs results given the inputs like weather and location.	2	High	Karthickeyan B Karthickeyan P Lokeshwaran S
Sprint-2	Software	USN-3	Working with IBM Watson IOT and Node Red integration and test the device and workflow	2	High	Logeshwaran M Muthamizhselvan J
Sprint-3	Application Development	USN-4	Using MIT App Inventor create an App and testing the application	2	High	Lokeshwaran S Karthickeyan B
Sprint-4	WEB UI	USN-5	Creation of an User interface with the Software and Optimize all the shortcomings and provide better user experience.	2	High	Karthickeyan P Muthamizhselvan J Logeshwaran M

Project Tracker, Velocity: (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	4 Days	24 Oct 2022	27 Oct 2022	20	28 Oct 2022
Sprint-2	20	5 Days	28 Oct 2022	01 Nov 2022	20	INPROGRESS
Sprint-3	20	8 Days	02 Nov 2022	09 Nov 2022	20	INPROGRESS
Sprint-4	20	8 Days	10 Nov 2022	17 Nov 2022	20	INPROGRESS

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)

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