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	Resources Initialization and IBM cloud	USN-1	Creating and initializing accounts in required APIs and IBM cloud platform	1	Medium	Lokeshwaran S Logeshwaran M Karthickeyan B Karthickeyan P Muthtamiz selvan J
Sprint-1	Software Run	USN-2	Write a Python program that outputs results given the inputs like weather and location.	1	Medium	Lokeshwaran S Logeshwaran M Karthickeyan B Karthickeyan P Muthtamiz selvan J
Sprint-2	Linking System with Cloud	USN-3	Working with IBM Watson IOT and Node Red integration to connect the system to cloud network	2	High	Lokeshwaran S Logeshwaran M Karthickeyan B Karthickeyan P Muthtamiz selvan J

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Hardware initialization	USN-4	Integration of hardware like IOT sensors and Digital Signboard to IBM cloud	2	High	Lokeshwaran S Logeshwaran M Karthickeyan B Karthickeyan P Muthtamiz selvan J
Sprint-4	WEB UI	USN-5	Optimization of the created user interface to provide better experience	2	Medium	Lokeshwaran S Logeshwaran M Karthickeyan B Karthickeyan P Muthtamiz selvan J

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)

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