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

Date	27 October 2022
Team ID	PNT2022TMID47020
Project Name	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	Initialization of the resources	USN-1	Create and open some accounts like Open weather API etc..	2	Low	Sheik Beermohamed.R/Sathish Kumar.R/Venkatesh.H/Vijay.A
Sprint-1	Software used	USN-2	Write a Python program that outputs results given the inputs like weather and location.	1	High	Sheik Beermohamed.R/Sathish Kumar.R/Venkatesh.H/ Balasubramaniyan.G
Sprint-2	Push the server to cloud	USN-3	We use IBM cloud for project deployment	2	High	Sheik Beermohamed.R/Sathish Kumar.R/Venkatesh.H/Vijay.A
Sprint-3	Hardware -sensor	USN-4	To sense the obstacles or to measure the parameters we need	2	Medium	Sheik Beermohamed.R/Sathish Kumar.R/Venkatesh.H/Vijay.A Balasubramaniyan.G
Sprint-3	Buzzer		It gives alarm when the vehicle's speed is above the limited speed	1	High	Sheik Beermohamed.R/Sathish Kumar.R/Venkatesh.H/ Balasubramaniyan.G
Sprint-4	Optimization and debugging	USN-5	Enhance the performance and provide better user experience		High	Sheik Beermohamed.R/Sathish Kumar.R/Venkatesh.H/Vijay.A

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)

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

Burndown Chart: