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

Date	7 November 2022
Team ID	PNT2022TMID04551
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	Login	USN-1	As a weather data controller, I log into my profile and start monitoring the weather updates	3	High	AFREEN.J
Sprint-1	dashboard	USN-2	I receive all the information about weather at a particular city from web from weather API. Whenever there is change in weather, corresponding updates about speed limits are made on sign boards.	2	High	AFREEN.J
Sprint-2	Login	USN-1	As a image controller, I keep note of all the images received from various areas and detect traffic in that particular area.	3	High	ARSHA VARSHINEE
Sprint-2	Dashboard	USN-2	With traffic, distance between the vehicles is detected by ultrasonic sensor and the vehicle will be automatically stopped if the distance is below the limit.	2	Medium	ARSHA VARSHINEE

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Login	USN-1	As a traffic controller, I keep note of all the vehicle's speed received from various areas using location sensor.	2	High	HEMA PRIYA
Sprint-3	Dashboard	USN-2	I ensure that the boards display "slow down" if high speed is detected.	2	Medium	HEMA PRIYA
Sprint-3	Login	USN-3	As a user, I move the marker to my current location and the destination location.	1	Medium	ARSHA VARSHINEE
Sprint-3	Dashboard	USN-4	I receive the fastest route to the destination and navigation instructions like "Turn left", "Turn right" will be displayed.	1	Medium	AFREEN.J
Sprint-4	Login	USN-1	As a zonal officer, I ensure that boards near school display "slow down" and near hospitals display "no horn".	3	High	KEERTHANA
Sprint-4	Login	USN-2	As an administrator, I ensure that the boards display "drive carefully" near construction site, narrow and uneven roads.	2	Medium	KEERTHANA

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: