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

Date	19 October 2022
Team ID	PNT2022TMID00923
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: