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

Date	28October 2022
Team ID	PNT2022TMID23864
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 scheme

Sprint	Functional Requirement (Epic)	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Resources Initialization	Create and initialize accounts in various public APIs like Open Weather Map API.	1	LOW	Ramya Dharshini Praneetha Rithika Vinobha
Sprint-1	Local Server/Software Run	Write a Python program that outputs results given the inputs like weather and location.	1	MEDIUM	Ramya Dharshini Praneetha Rithika Vinobha
Sprint-2	Push the server/software to cloud	Push the code from Sprint 1 to cloud so it can be accessed from anywhere	2	MEDIUM	Ramya Dharshini Praneetha Rithika Vinobha
Sprint-3	Hardware initialization	Integrate the hardware to be able to access the cloud functions and provide inputs to the same.	2	HIGH	Ramya Dharshini Praneetha Rithika Vinobha
Sprint-4	UI/UX Optimization & Debugging	Optimize all the shortcomings and provide better user experience.	2	LOW	Ramya Dharshini Praneetha Rithika Vinobha

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	23 Oct 2022	28 Oct 2022	20	30 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	07 Nov 2022	20	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	13 Nov 2022	20	08 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	20 Nov 2022	20	15 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:

Balance Work

A line chart titled "Balance Work" with the y-axis labeled "WORK REMAINING" (ranging from 0 to 100, with gridlines at 25, 50, 75, 100) and the x-axis labeled "SPRINT" (with categories START, SPRINT 1, SPRINT 2, SPRINT 3, SPRINT 4). The line starts at 100 at START, declines to about 10 at SPRINT 3, and reaches 0 at SPRINT 4.