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

Date	28 October 2022
Team ID	PNT2022TMID21273
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	Creation and Installations of software	Create an account and install the required software - IBM cloud , weather app , IBM Watson , Node Red , Python.	1	LOW	Kowsanth Naveen Harish Raji
Sprint-2	Local Server/Software Run	Creation of python script to extract the important data such as temperature , humidity and other weather conditions.	1	MEDIUM	Kowsanth Naveen Harish Raji

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	Kowsanth Naveen Harish Raji
Sprint-2	Creation of other important parameters in the node red .	Creation of device , board , Node Red service and other required software installation for the connection of python script with the cloud .	2	MEDIUM	Kowsanth Naveen Harish Raji
Sprint-2	Creation of UI	Creation of UI using MTI app inventor.	2	HIGH	Kowsanth Naveen Harish Raji
Sprint-3	Creation of function and Debugging	Sending data from the weather app to the cloud . Sending data from cloud to the node red and pre-process the data .	2	HIGH	Kowsanth Naveen Harish Raji
Sprint-4	UI/UX Optimization & Debugging	Creation of UI dashboard in Node Red.Final output is displayed . Data is transferred from cloud to the MTI app inventor.	2	HIGH	Kowsanth Naveen Harish Raji

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	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:

Balance Work