Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID19266
Project Name	Signs With Smart Connectivity For Better Road Safety
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Resources Initialization	USN-1	Create and initialize accounts in various public APIs like Open Weather API.	1	Low	Krishna M, Kishore S M, Kishor M, Naveen V
Sprint-1	Local Server /Software Run	USN-2	Write a Python program that outputs results given the inputs like weather and location.	1	Medium	Krishna M, Kishore S M, Kishor M, Naveen V
Sprint-2	Push the server /software to cloud	USN-3	Push the code from Sprint 1 to cloud so it can be accessed from anywhere.	2	Medium	Krishna M, Kishore S M, Kishor M, Naveen V
Sprint-3	Hardware initialization	USN-4	Integrate the hardware to be able to access the cloud functions and provide inputs to the same.	2	High	Krishna M, Kishore S M, Kishor M, Naveen V
Sprint-4	UI/UX Optimization & Debugging	USN-5	Optimize all the shortcomings and provide better user experience.	2	Low	Krishna M, Kishore S M, Kishor M, Naveen V

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	02 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	09 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.