Project Planning Phase

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

Date	15 November 2022
Team ID	PNT2022TMID54421
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 / Task	Story Points	Priority	Team Members
Sprint-1	Resource initialisation	Create and initialise account in OpenWeatherMap	1	low	Samyuktha Varsha Shreyas Veerasawakar
Sprint-1	Local server/software run	Write a python program to obtain the output as the weather and speed limit suggestion	1	medium	Veerasawakar Shreyas Samyuktha Varsha
Sprint-2	Push server/software to cloud	Push the code from sprint 1 to cloud so that it can be accessed from anywhere	2	high	Veerasawakar Shreyas Samyuktha Varsha
Sprint-3	Hardware initialisation	Integrate hardware to be able to access the cloud functions and provide inputs	2	High	Shreyas Veerasawakar Varsha Samyuktha
Sprint-4	UI/UX optimisation for better user experience	Optimise all shortcomings and provide better user experience	2	Medium	Varsha Samyuktha Shreyas Veerasawakar

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	28 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	3 Oct 2022	05 Nov 2022	20	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	7 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 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.

Burndown Chart: