Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID10209
Project Title	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 / Task	Story Points	Priority	Team Members
Sprint1	Resources Initialization	Create and initialize accounts in various public APIs like Open Weather API.	1	LOW	Syed Sharukh, Valluri Venkata Manju Vardhan Kumar, Vikram Dammu , Shahith S
Sprint1	Local Server/Software Run	Write a Python program that outputs results given the inputs like weather and location.	1	MEDIUM	Syed Sharukh, Valluri Venkata Manju Vardhan Kumar, Vikram Dammu , Shahith S

Sprint2	Push the server/software to cloud	Push the code from Sprint 1 to cloud so it can be accessed from anywhere	2	MEDIUM	Syed Sharukh, Valluri Venkata Manju Vardhan Kumar, Vikram Dammu , Shahith S
Sprint3	Hardware initialization	Integrate the hardware to be able to access the cloud functions and provide inputs to the same.	2	HIGH	Syed Sharukh, Valluri Venkata Manju Vardhan Kumar, Vikram Dammu , Shahith S
Sprint4	UI/UX Optimization & Debugging	Optimize all the shortcomings and provide better user experience.	2	LOW	Syed Sharukh, Valluri Venkata Manju Vardhan Kumar, Vikram Dammu , Shahith S

Project Tracker, Velocity & Burn down 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)
Sprint1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint2	20	6 Days	31 Oct 2022	05 Nov 2022	20	02 Nov 2022
Sprint3	20	6 Days	07 Nov 2022	12 Nov 2022	20	09 Nov 2022
Sprint4	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 :