Project Planning Phase

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

Team ID	PNT2022TMID27681
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	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa
Sprint1	Local Server/Software Run	Write a Python program that outputs results given the inputs like weather and location.	1	MEDIUM	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa
Sprint2	Push the server/software to cloud	Push the code from Sprint 1 to cloud so it can be accessed from anywhere	2	MEDIUM	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa

Sprint3	Hardware initialization	Integrate the hardware to be able to access the cloud functions and provide inputs to the same.	2	HIGH	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa	
Sprint4	UI/UX Optimization & Debugging	Optimize all the shortcomings and provide better user experience.	2	LOW	S.Gobika, K.Narmatha, M.Srija, S.Subhikshaa	

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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

Burndown Chart :

Balance Work