Project Planning Phase

Date	17 November 2022
Team ID	PNT2022TMID33963
Project Name	Signs with Smart Connectivity for BetterRoad Safety
Maximum Marks	

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Dynamic SpeedLimit	USN-1	As a traveller, it is essential for me toknow the speed limit.	8	High	Abisha Anugraha
Sprint-1	Sensor implementation	USN-2	As a traveller, I should concern in traffic density and road condition, pedestrian monitoring and controls traffic signals.	6	Low	Brijitha Angel
Sprint-1	Weather speed limit	USN-3	As a user, I should be aware of weather influence on speed limit of safer ride. Open weather API has to implement to monitor weather reports.	9	Medium	Abisha Anugraha Angel
Sprint-2	Safer Ride	USN-4	As a traveller, I should have a hustle free journey.	11	Medium	Angel Brijitha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Transport Agency Registration	USN-4	Register for getting approval to implement the smart sign boards for better road safety	8	Medium	Abisha Brijitha
Sprint-3	Login	USN-6	As an administrator, I should have anaccount on the website.	7	Low	Anugraha Angel
Sprint-3	Dashboard	USN-7	As an admin, I should be able to monitor and add sign nodes.	13	Medium	Abisha Angel
Sprint-4	Monitoring	USN-8	As an admin, I must control and monitor the proper functioning of thesign through rarely required.	9	Low	Brijitha Angel Abisha
Sprint-4	More accurate indications	USN-9	As a user, as days pass by, moreaccurate guidance is needed.	4	Low	Anugraha Brijitha Angel
Sprint-4	Information Sharing	USN-10	Once the situation detected the user get information via the digital display who travels along the road also it will update in the platform, so others plan accordingly	7	High	Angel Brijitha Abisha Anu

Project Tracker, Velocity & Burndown Chart:

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	19 Nov2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	19 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	19 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 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 averagevelocity(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 progressover time.