

## Project Planning Phase

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

Date	06 November 2022
Team ID	PNT2022TMID23925
Project Name	Project - 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 Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Visibility	USN-1	As a user, I can able to read the message on the display and became aware of it.	2	High	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-2		USN-2	As a user, I can able to know the nearby warning signs and became aware of it.	1	Medium	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-1		USN-3	As a user, I can became aware of crossing by blinking light system and it keeps me awake.	2	Medium	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-4		USN-4	As a user, I can able to know the traffic signal countdown and get ready to move.	1	Low	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-4	User Interaction	USN-5	As a user, I can get to know about the road conditions through the notification.	1	Low	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-2		USN-6	As a user, I can able to change the crossing button manually to cross the road.	2	High	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-2		USN-7	As an admin, I can able to change the display messages manually using a security key.	2	Medium	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-3	Traffic Detection	USN-8	As an admin, I can able to track the traffic and able to display the message accordingly.	2	High	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan

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Sprint-3		USN-9	As an admin, I can able to change the traffic lights based on the traffic detection.	2	High	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-4	Communication	USN-10	As a user, I can get the weather alert based on the location.	1	Medium	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan
Sprint-4		USN-11	As an admin, I can able to alert the diversion to the user based on the traffic.	2	High	Mohamed Rasith, Ameer Khan, Mohamed Khan, Mohamed Raiyan

**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	10 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	13 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	16 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 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

