

Project Planning Phase

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

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|---------------|--|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID35906 |
| Project Name | 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 Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|--|--------------|----------|--|
| Sprint-1 | Dynamic Speed Limit | USN-1 | As a traveller, It is essential for me to know the speed limit | 3 | High | Rohinth Ram R V, Siva Chokkalingam S |
| Sprint-1 | Priority Vehicle | USN-2 | As a traveller, I should give way to priority vehicles | 2 | Low | Atchayapriya M, Deepa Jothi K |
| Sprint-1 | Weather Speed Limit | USN-3 | As a user, I should be aware of weather influence on speed limit for safer ride | 2 | Medium | Rohinth Ram R V, Siva Chokkalingam S, Atchayapriya M, Deepa Jothi K |
| Sprint-2 | Safer Ride | USN-4 | As a traveller, I should have a hustle free journey | 2 | Medium | Rohinth Ram R V, Siva Chokkalingam S, Atchayapriya M, Deepa Jothi K |
| Sprint-3 | Login | USN-5 | As an administrator, I should have an account on the website | 1 | Low | Atchayapriya M, Rohinth Ram R V |
| Sprint-3 | Dashboard | USN-6 | As an admin, I should be able to monitor and add sign nodes | 2 | Medium | Deepa Jothi K, Siva Chokkalingam S |
| Sprint-4 | Monitoring | USN-7 | As an admin, I must control and monitor the proper functioning of the signs though rarely required | 1 | Low | Deepa Jothi K, Rohinth Ram R V |
| Sprint-4 | More accurate Indications | USN-8 | As a user, as days pass by, more accurate guidance is needed | 1 | Low | Atchayapriya M, Siva Chokkalingam S |

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

Velocity:

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{6} = 3.33$$

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.

