# Project Planning Phase

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

| | |
|---|---|
| Date | 03 November 2022 |
| Team ID | PNT2022TMID33222 |
| Project Name | Smart Solutions for Railways |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 10 | High | Keerthi Vasan<br>Pon Balaji |
| Sprint-2 | Reservation | USN-2 | As a user, I will receive confirmation email once I have booked my tickets. | 10 | High | Keerthi Vasan<br>Maruthamalaiayyanraja |
| Sprint-3 | Reservation | USN-3 | As a user, I can reserve my tickets through Gmail | 5 | Medium | Mohan Raj<br>Mohamed Arsath |
| Sprint-1 | Login | USN-4 | As a user, I can log into the application by entering email & password | 10 | High | Keerthi Vasan<br>Maruthamalaiayyanraja |
| Sprint-4 | Dashboard | USN-5 | The details of the train and tickets will be displayed clearly | 5 | Low | Mohamed Arsath<br>Pon Balaji |
| Sprint-4 | Service Provider | USN-6 | The user can clear their doubts by connecting to the service provider. | 5 | Medium | Mohamed Arsath<br>Pon Balaji |
| Sprint-2 | Service Provider (Admin) | USN-7 | Unique QR will be provided to each and every ticket. | 10 | High | Keerthi Vasan<br>Maruthamalaiayyanraja |
| Sprint-3 | Service Provider (Admin) | USN-8 | Timings and status of the train will updated to the database | 5 | Medium | Mohan Raj<br>Mohamed Arsath |

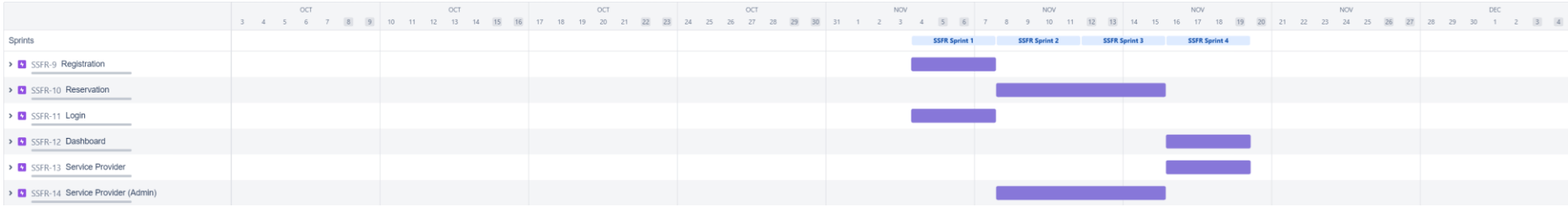
**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| 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 | 4 Days | 04 Nov 2022 | 07 Nov 2022 | | |
| Sprint-2 | 20 | 4 Days | 08 Nov 2022 | 11 Nov 2022 | | |
| Sprint-3 | 10 | 4 Days | 12 Nov 2022 | 15 Nov 2022 | | |
| Sprint-4 | 10 | 4 Days | 16 Nov 2022 | 19 Nov 2022 | | |

**Velocity:**
We have a 4-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)

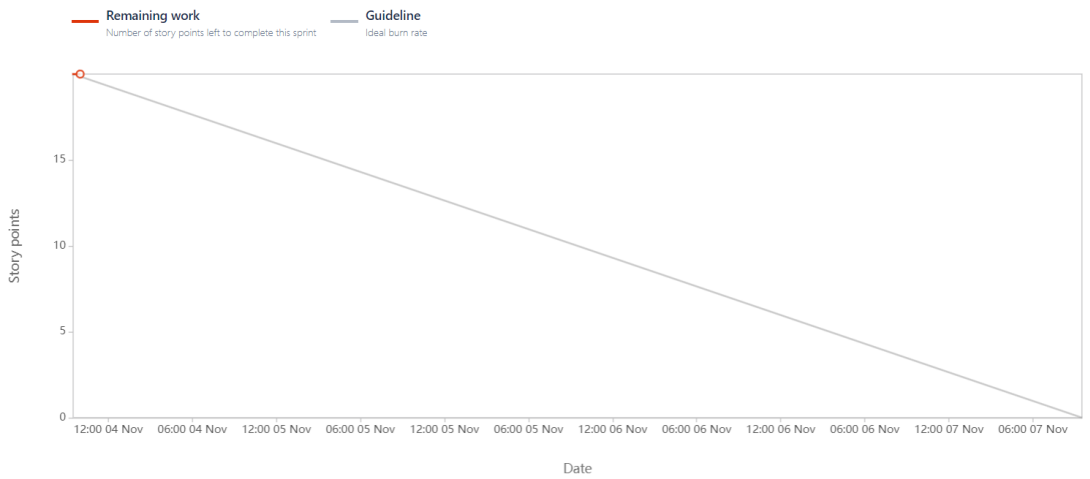
$$AV = \text{Sprint Duration} / \text{Velocity} = 20/4 = 5$$

## Road Map:



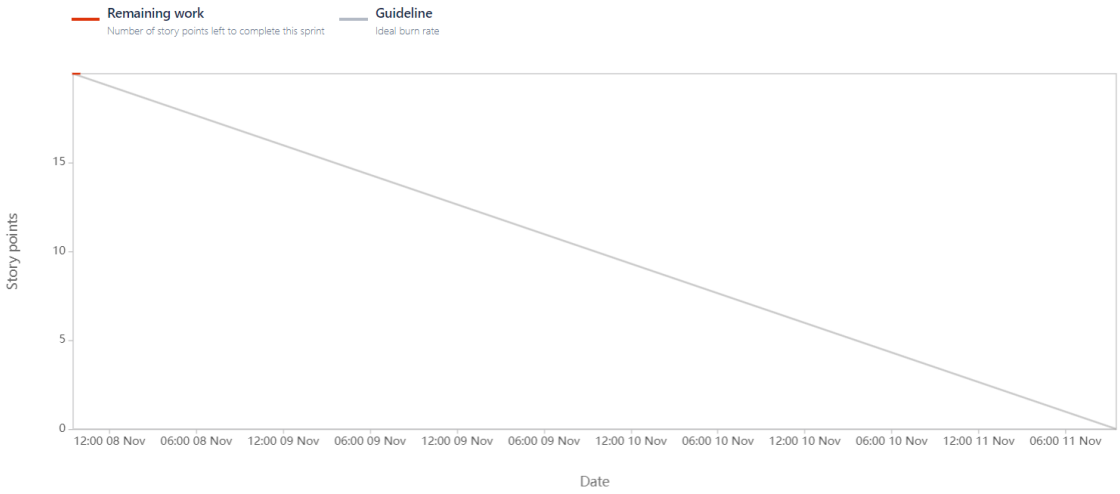
# Sprint 1

**Date** - November 4th, 2022 - November 7th, 2022



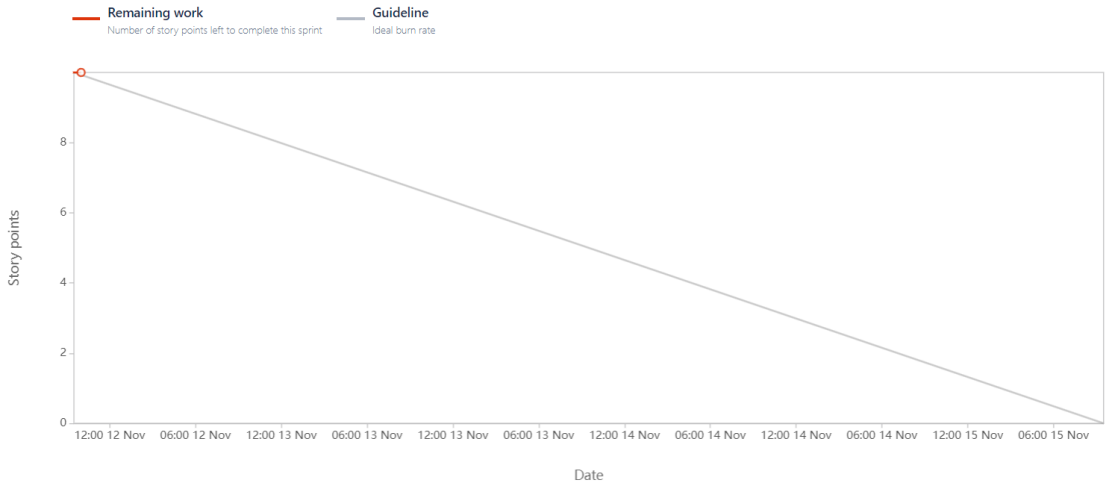

# Sprint 2

**Date** - November 8th, 2022 - November 11th, 2022



# Sprint 3

**Date** - November 12th, 2022 - November 15th, 2022




# Sprint 4

**Date** - November 16th, 2022 - November 19th, 2022