

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID35911
Project Name	Smart solution for Railways
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	Registration	USN-1	As a user, I can start booking the ticket by registering my email, password, and confirming my password.	10	High	SANJAY KRUSHNAN R C, ABISHEK R
		USN-2	As a user, I will receive confirmation email once I have registered for the application.	5	High	SANJAY KRUSHNAN R C, ABISHEK R
	Login	USN-3	As a user, I can log into the application by entering email & password	5	High	SANJAY KRUSHNAN R C, ABISHEK R
Sprint-2	Action	USN-4	As a user, I can book the ticket and get the ticket in the form of QR code.	15	High	SANJAY KRUSHNAN R C, ARUN KUMAR S, AGILAN P
		USN-5	As a user, I get the instant message	5	Low	SANJAY KRUSHNAN R C, ARUN KUMAR S, AGILAN P
Sprint-3	Data Viewing	USN-6	As a user, I spend less time while ticket checking, as QR code is scanned and instant results are appeared in web UI.	20	High	SANJAY KRUSHNAN R C, ARUN KUMAR S, AGILAN P

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Storage	USN-7	As a user, I can access data from cloud using interactive UI.	10	High	SANJAY KRUSHNAN R C, ABISHEK R
		USN-8	As a user, I can experience enhanced features and user-friendly ticket management system	10	Medium	SANJAY KRUSHNAN R C, ABISHEK R

#### 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:

We have a 6-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)

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

## 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.

