

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

Date	18October 2022
Team ID	PNT2022TMID37898
Project Name	Project – Smart Solution 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.	4	High	Yuvasree R
Sprint-1	Registration (Confirmation)	USN-2	As a user, I will receive confirmation email once I have registered for the application	10	High	Yuvasree R, Manoj Singh.B, Rahul Karan.K
Sprint-1	Alternative Registration	USN-3	As a user, I can register for the application through Gmail	6	Medium	Yuvasree R, Maheswari.P, Naveen Kumar.C

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-4	As a user, We will be able to search for trains with dates and place of arrival and departure.	10	High	Yuvasree R, Rahul Karan.K, Aravind Raj
Sprint-2	Dashboard	USN-5	As a user, We will be able to search make booking based on availability of seats and other options.	10	High	Yuvasree R, Rahul Karan.K, Aravind Raj
Sprint-3	Upload	USN-6	As a user, We will be able to upload all the required documents for booking tickets.	4	Medium	Yuvasree.R, Aravind Raj.R, Rahul Karan.K
Sprint-3	Payment	USN-7	As a user, I will be able to make payment for the booking.	6	High	Yuvasree R, Manoj Singh.B, Naveen Kumar.C
Sprint-3	QR code Generation	USN-8	From the Railways Management System, for each booking unique QR code is generated	10	High	Yuvasree R, Maheswari.P, Aravind Raj.R
Sprint-4	Ticket Checking	USN-9	Ticket checker will be able to verify the passenger details by scanning the QR Code	10	High	Yuvasree R, Manoj Singh.B, Naveen Kumar.C
Sprint-4	Live location Tracking	USN-10	User will able to track the live location of train using the application.	10	Medium	Yuvasree R, Rahul Karan.K, Maheswari P

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	30 Oct 2022		31 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		06 Nov 2022
Sprint-3	20	6 Days	06 Nov 2022	11 Nov 2022		12 Nov 2022
Sprint-4	20	6 Days	12 Nov 2022	17 Nov 2022		18 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

Sprint-1 = AV=20/06=3.3

Sprint-2 = AV=20/06=3.3

Sprint -3 = AV=20/06=3.3

Sprint-4 = AV=20/06=3.3

Burn down 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.

Burndown Chart

Smart Solution for Railways

