

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

Date	29 October 2022
Team ID	PNT2022TMID32228
Project Name	Smart Solutions 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	Register by creating new id in the application	15	High	Santhosh Kumar V
Sprint-1	User verification	USN-2	User can verify with the OTP send to the registered mobile number.	5	Medium	Tamilarasan P S
Sprint-1	login	<u>USN-3</u>	Login with the registered id.	15	High	Sudhakar S
Sprint-2	Availability of train	USN-4	Checking the availability of train and book the seats	10	High	Manju V
Sprint-2	Document verification	USN-5	Verify the document using IBM Watson	15	High	Sudhakar S
Sprint-2	Booking Status	USN-6	To check my ticket once it is confirmed. Connecting the Arduino with IBM Watson	10	High	Tamilarasan P S

Sprint-3	Payment	USN-7	Pay the fee through online using net banking and UPI	15	High	Santhosh Kumar V
Sprint-3	Train Information	USN-8	check the trains detailslike when will train reach stations and updateTrain information.	10	Medium	Manju V
Sprint-3	Locate the train	USN-9	Tracking the train and share live location of the train. Connecting the sensors	15	High	Santhosh Kumar V
Sprint-4	Ticket verification	USN-10	As a TC, to check the users whether passenger have tickets or not with scanning the QR code	15	High	Sudhakar S
Sprint-4	Feedback	USN-11	To know the good and fault to give update application as user friendly	10	Medium	Manju V
Sprint-4	Queries and complaints	USN-12	if something is wrong, passenger can able to raise complaints on the application	10	Medium	Tamilarasan P S

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

Sprint	Total Story	Duration	Sprint Start Date	Sprint End Date(Planned)	Story Points Completed (as	Sprint Release Date(Actual)
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	Points				on Planned End Date)	
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:

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)

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

