

Project Planning Phase

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

Date	16 November 2022
Team ID	PNT2022TMID16913
Project Name	Project – Smart Solution for Railways

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	Monitor the Speed of Train	USN-1	Uncontrollable speed may cause danger for passengers. So it is necessary to monitor the speed of the train.	2	High	Mohamed Safir Hussain Prasanna kumar Rama Krishnan Palani Bala
Sprint-2	Avoid From Accidents	USN-2	If any accident occurs their Technical team will take care of it and save the passengers.	1	High	Mohamed Safir Hussain Prasanna kumar Rama Krishnan Palani Bala
Sprint-3	Detect the Motions	USN-3	We have monitor the motions and delays by 24/7 hrs. To avoid the accidents and delays by using only sensors. The railway must take care of what are the necessary process to avoid the train accidents and delays.	2	Low	Mohamed Safir Hussain Prasanna kumar Rama Krishnan Palani Bala

Sprint-4	The model is trained and tested by sample Dataset.	USN-4	The programmer design the model to detect the Train Details.	2	Medium	Mohamed Safir Hussain Prasanna kumar Rama Krishnan Palani Bala
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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
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Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-5	Warning message	USN-5	Incase of any accidents or mistakes , warning message will be send to the concerned department then they will rectify that.	1	High	Mohamed Safir Hussain Prasanna kumar Rama Krishnan Palani Bala

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

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
Sprint-5	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)

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