Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID51648
Project Name	Smart Solution for Railways-IoT
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	Monitor the Speed of Train	USN-1	The Railway must take care of passengers and peoples.In the train there are so many families we should secure them.	2	High	Bency Bethees Brinesh B.P Binex Biju Samuel Athul Anil
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	Bency Bethees Brinesh B.P Binex Biju Samuel Athul Anil
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 takecare of what are the necessary process to avoid the train accidents and delays.	2	Low	Bency Bethees Brinesh B.P Binex Biju Samuel Athul Anil
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	Bency Bethees Brinesh B.P Binex Biju Samuel Athul Anil

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-5	Warning message	USN-5	In case any accident or delay occur, the device give the alarm and alert message to concerned department within a minute.	1	High	Bency Bethees Brinesh B.P Binex Biju Samuel Athul Anil

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	3 Days	8 Nov 2022	10 Nov 2022	20	10 Nov 2022
Sprint-2	20	3 Days	11 Nov 2022	13 Nov 2022	20	13 Nov 2022
Sprint-3	20	3 Days	14 Nov 2022	16 Nov 2022	20	16 Nov 2022
Sprint-4	20	3 Days	17 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 us calculate the team's average velocity (AV) per iteration unit (story points per day)

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