Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

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.	2	High	Yuvasree R
Sprint-1	Verification	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 – Method 1	USN-3	As a user, I can register for the application through Gmail	2	Medium	Yuvasree R, Maheswari.P, Naveen Kumar.C
Sprint-1	Alternative Registration –	USN-4	As a user, I can register for the application through Facebook	2	Low	Yuvasree R, Rahul Karan.K,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Method 2					Naveen Kumar.C
Sprint-2	Login	USN-5	As a user, I can log into the application by entering email & password	4	High	Yuvasree R, Manoj Singh.B
Sprint-2	Dashboard	USN-6	As a user, I will be able to check the availabilities of seats and other menu options available.	6	High	Yuvasree R, Rahul Karan.K, Aravind Raj
Sprint-3	Ticket Booking	USN-7	As a user, I will be able be booking the tickets by using the online payment options available.	10	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 Verification	USN-9	Ticket checker will be able to verify the passenger details by scanning the QR Code	14	High	Yuvasree R, Manoj Singh.B, Naveen Kumar.C
Sprint-5	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	313	6 Days	24 Oct 2022	31 Oct 2022		31 Oct 2022
Sprint-2	10	5 Days	31 Oct 2022	04 Nov 2022		05 Nov 2022
Sprint-3	20	5 Days	05 Nov 2022	10 Nov 2022		11 Nov 2022
Sprint-4	14	5 Days	11 Nov 2022	15 Nov 2022		16 Nov 2022
Sprint-5	10	3 Days	16 Nov 2022	18 Nov 2022		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)

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

Sprint-1 = AV=16/06=2.6

Sprint-2 = AV=10/05=2

Sprint -3 = AV=20/5=4

Sprint-4 = AV=14/5=2.8

Sprint-5 = AV=10/3=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