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

Date	01 November 2022
Team ID	PNT2022TMID40694
Project Name	Smart Solutions 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 passenger, I want to create a login credentials so I can securely access myself service online account.	15	High	Gayathri.R, Mahalakshmi.S, Ramya.K, Santhosh.R,
Sprint-1	Ticket Conformation	USN-2	As a passenger, I want to check my ticket whether it is conformed or not.	5	Medium	Gayathri.R, Mahalakshmi.S, Ramya.K, Santhosh.R,
Sprint-2	Payment	USN-3	As a passenger, I want to pay my ticket cost in online payment	15	High	Gayathri. R, Mahalakshmi. S, Ramya.K, Santhosh. R
Sprint-3	Booking Status	USN-4	As a passenger, I want to check my ticket once it is conformed.	5	Medium	Gayathri.R, Mahalakshmi.S Ramya.K, Santhosh. R
Sprint-4	Updating Train Information	USN-5	As an admin, I want to check the trains details like when will train reach stations and update Train information.	10	Medium	Gayathri. R, Mahalakshmi .S, Ramya.K, Santhosh. R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Verifying Tickets	USN-6	As a TC, I want to check the users whether he/she have tickets or not with scanning the QR Code	15	High	Gayathri. R, Mahalakshmi. S, Ramya.K, Santhosh .R
Sprint-2	Knowing Current Location details	USN-7	As a passenger, I want to know the train current location.	5	Low	Gayathri. R, Mahalakshmi. S, Ramya.K, Santhosh. R
Sprint-4	Raise a compliant	USN-8	As a user, I should able to raise a ticket if something is wrong	10	Medium	Gayathri. R, Mahalakshmi. S Ramya.K, Santhosh. R

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	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)

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

Burndown 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.

Smart Solutions for Railway - Burndown Chart