

Project Planning Phase

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

Date	12 NOVEMBER 2022
Team ID	PNT2022TMID37118
Project Name	Project – 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 user, I can register through the form by Filling in my details	2	High	P.Charulatha
		USN-2	As a user, I can register through phone numbers, Gmail, Facebook or other social sites	1	High	R.Dharshini
	Conformation	USN-3	As a user, I will receive confirmation through email or OTP once registration is successful	2	Low	J.Hasna Alfiya Fathima
	login	USN-4	As a user, I can login via login id and password or through OTP received on register phone number	2	Medium	Digala Padmaja
	Display Train details	USN-5	As a user, I can enter the start and destination to get the list of trains available connecting the above	1	High	P.Charulatha
Sprint-2	Booking	USN-6	As a use, I can provide the basic details such as a name, age, gender etc...	2	High	R.Dharshini
		USN-7	As a user, I can choose the class, seat/berth. If a preferred seat/berth isn't available I can be allocated based on the availability	1	Low	J.Hasna Alfiya Fathima
	Payment	USN-8	As a user, I can choose to pay through credit Card/debit card/UPI.	1	High	Digala Padmaja

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
		USN-9	As a user, I will be redirected to the selected	2	High	P.Charulatha
Sprint-3	Ticket generation	USN-10	As a user, I can download the generated e-ticket for my journey along with the QR code which is used for authentication during my journey.	1	High	R.Dharshini
	Ticket status	USN-11	As a user, I can see the status of my ticket Whether it's confirmed/waiting/RAC.	2	High	J.Hasna Alfiya Fathima
	Reminders notification	USN-12	As a user, I get reminders about my journey A day before my actual journey.	1	High	Digala Padmaja
	Ticket cancellation	USN-13	As a user, I can track the train using GPS and can get information such as ETA, Current stop and delay	2	High	P.Charulatha
Sprint-4		USN-14	As a user, I can cancel my tickets if there's any Change of plan	1	High	R.Dharshini
	Raise queries	USN-15	As a user, I can raise queries through the query box or via mail.	2	Medium	J.Hasna Alfiya Fathima
	Answer the queries	USN-16	As a user, I will answer the questions/doubts Raised by the customers.	2	High	Digala Padmaja
	Feed details	USN-17	As a user, I will feed information about the trains delays and add extra seats if a new compartment is added.	1	High	P.Charulatha

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	19 Nov2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	19 Nov2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	19 Nov2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov2022

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)

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

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

Sprint	Start Hou	Hours Sp	Hours Spen	Hours Sp	Hours Spe	Hours Spe	Hours Sp	Total hours
Sprint 1	10	4	3	2	0	1	0	10
Sprint 2	8	3	1	1	2	0	1	8
Sprint 3	10	3	2	2	1	1	1	10
Sprint 4	12	5	3	2	0	1	1	12
Actual remaining H	65	43	27	17	9	4	0	
Estimated remainin	65	45	27	20	8	9	0	

