

Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID13270
Project Name	Machine Learning Based Vehicle Performance Analyzer
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	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-2		USN-4	As a user, I can register for the application through Gmail	2	Medium	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-1	Dashboard	USN-6	As a user, I can access the services and information provided in the dashboard	2	High	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR

Sprint-1	Login	USN-7	As a user, I can log into the web application and access the dashboard	1	High	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-4	Helpdesk	USN-8	As a user, I can get the guidance from the customer care	1	High	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Management	USN-9	As an administrator, I can collect new datasets and keep the model trained	2	High	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-3		USN-10	As an administrator, I can update other features of the application	2	Medium	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-3		USN-11	As an administrator, I can maintain the information about the user	2	Medium	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR
Sprint-4		USN-12	As an administrator, I can maintain third-party services	1	Low	KAMALESH KARTHIKEYAN MOHAN RAJ SANJAYKUMAR

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	7	6 Days	24 Oct 2022	29 Oct 2022	7	29 Oct 2022
Sprint-2	4	6 Days	31 Oct 2022	05 Nov 2022	4	05 Nov 2022
Sprint-3	6	6 Days	07 Nov 2022	12 Nov 2022	6	12 Nov 2022
Sprint-4	2	6 Days	14 Nov 2022	19 Nov 2022	2	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)

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

$$AV \text{ (Sprint 1)} = 7/6 = 1$$

$$AV \text{ (Sprint 2)} = 4/6 = 1$$

$$AV \text{ (Sprint 3)} = 6/6 = 1$$

$$AV \text{ (Sprint 4)} = 2/6 = 1$$

$$AV \text{ (Total)} = 21/24 = 1$$

Burndown Chart:

A burndown 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.

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Software project

PLANNING

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Projects / ML Based Vehicle Performance Analyzer

Sprint 2

5 days remaining Complete sprint

SV Sprint 1 Clear filters

GROUP BY None Insights

TO DO 2 OF 12 ISSUES

application through Facebook

MBVPA-6 2

As a user, I can register for the application through Gmail

MBVPA-7 2

IN PROGRESS

Sprint burndown BETA ?

0 points done, 4 points to go

Heads up

