

Project Planning Phase

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

Date	10 November 2022
Team ID	PNT2022TMID18402
Project Name	Project - Developing a Flight Delay Prediction Model using Machine Learning
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	Sangeetha S
Sprint-2	Confirmation email	USN-2	As a user, I will receive confirmation email once I have registered for the application.	2	Medium	Saranyaa M
Sprint-1	User Login	USN-3	As a user, I can log into the application by entering email & password.	2	High	Shanmuga priya R
Sprint-2	Admin panel	USN-4	As an admin, I can authenticate the registration and login credentials of the passengers.	2	High	Shruthi Ranjani J
Sprint-3	Arrival and Departure time of flights	USN-5	As a user, I can find all the details of a specific flight with its number or name.	2	High	Sangeetha S
Sprint-3		USN-6	As a user, I can find exactly how long the flight will be delayed.	2	High	Saranyaa M
Sprint-4	Helpdesk	USN-7	As a customer care executive, I can provide airline details for contact.	1	Medium	Shanmuga priya R
Sprint-4		USN-8	As a passenger, I am able to find available alternative flights to the destination.	1	High	Sangeetha S Saranyaa M Shanmuga priya R Shruthi Ranjani J

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Feedback	USN-9	As a user, I can provide my suggestions and feedback for the improvement of the application.	2	Medium	Shruthi ranjani J

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	4	6 Days	27 Oct 2022	01 Nov 2022	4	20 Nov 2022
Sprint-2	4	6 Days	02 Nov 2022	07 Nov 2022	4	22 Nov 2022
Sprint-3	4	6 Days	08 Nov 2022	03 Nov 2022	4	24 Nov 2022
Sprint-4	4	6 Days	14 Nov 2022	19 Nov 2022	4	25 Nov 2022

Velocity:

We have a 24-day sprint duration, and the velocity of the team is 4 (points per sprint). The team's average velocity (AV) per iteration unit (story points per day) is

$$\begin{aligned}
 AV &= \text{Sprint duration} / \text{velocity} \\
 &= 24/16 \\
 &= 1.5
 \end{aligned}$$

Burndown Chart:

Work left to do versus time

Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Actual Effort	100	100	50	70	90	40	50	30	20	80	70	70	70	60	60	50	50	50	50	40	40	30	20	10
Effort Remaining	0	0	0	0	0	0	0	0	0	0	0	5	10	25	30	30	30	5	25	30	30	30	20	10

