

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID39920
Project Name	DEVELOPING A FLIGHT DELAY PREDICTION MODEL USING MACHINE LEARNING
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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.	3	High	Ajay Kumar
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Subash C
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Sundaramoorthy
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Sanjay S
Sprint-1	Profile Page	USN-6	As a user, I can view my profile	1	High	Ajay Kumar
Sprint-2		USN-3	As a user, I can register for the application through Facebook, Instagram, other social media	2	Low	Sanjay S
Sprint-2	Search	USN-7	As a user, I can search for flights for different locations	2	High	Subash C
Sprint-2	View	USN-8	As a user, I can view the details of flights	1	High	Sundaramoorthy
Sprint-2	Analyse	USN-12	As an admin, I will analyse the given dataset	5	High	Ajay Kumar
Sprint-2	Predict	USN-13	As an admin, I will predict the delays	8	High	Sanjay S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Visualisation		Visualize the predicted data	5	High	Ajay Kumar
Sprint-3, 4	Receive notifications	USN-9	As a user, I will receive notifications about the flights	3	Low	Subash C
Sprint-3, 4			Backend for notifications	5	Low	SundaraMoorhty
Sprint- 3, 4	Track	USN-10	As a user, I can track the location of my flight	3	Medium	Sanjay S
Spint-3, 4	GPS	USN-11	As an admin, I will need the location of flights	3	High	Sanjay S

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	8	4 Days	22 Oct 2022	25 Oct 2022		
Sprint-2	15	9 Days	26 Oct 2022	03 Nov 2022		
Sprint-3	19	9 Days	02 Nov 2022	10 Nov 2022		
Sprint-4	14	9 Days	04 Nov 2022	12 Nov 2022		

Velocity:

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

Average Velocity for Sprint 1:

$$AV = 8/4 = 2$$

Average Velocity for Sprint 2:

$$AV = 15/9 = 1.6$$

Average Velocity for Sprint 3:

$$AV = 19/9 = 2.1$$

Average Velocity for Sprint 4:

$$AV = 14/9 = 1.5$$