# **Project Planning Phase**

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

Date	18 October 2022
Team ID	PNT2022TMID30209
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	User Story	User Story / Task	Story Points	Priority	Team
	Requirement (Epic)	Number				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	Sarada S P
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	As a user, I will receive confirmation email once 1		Sivatharani V
Sprint-1		USN-4	· · ·		Medium	Sparsha S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password		High	Revathi R
Sprint-1	Profile Page	USN-6	As a user, I can view my profile	1	High	Sivatharani V
Sprint-2		USN-3	As a user, I can register for the application through Facebook, Instagram, other social media	2	Low	Sparsha S
Sprint-2	Search	USN-7	As a user, I can search for flights for different 2 locations		High	Revathi R
Sprint-2	View	USN-8	As a user, I can view the details of flights 1 High		High	Sarada S P
Sprint-2	Analyse	USN-12	As an admin, I will analyse the given dataset 5 High		Sivatharani V	
Sprint-2	Predict	USN-13	As an admin, I will predict the delays	8	High	Sparsha S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority High	Team Members Sarada S P	
Sprint-3	Visualisation		Visualize the predicted data	5			
Sprint-3, 4	Receive notifications	USN-9	As a user, I will receive notifications about the flights	3	Low	Sparsha S	
Sprint-3, 4			Backend for notifications	5	Low	Revathi R	
Sprint- 3, 4	Track	USN-10	As a user, I can track the location of my flight 3 M		Medium	Sivatharani V	
Spint-3, 4	GPS USN-11 As an admin, I will need the location of flights				High	Revathi 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	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:**

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

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:

$$AV = 14/9 = 1.5$$