

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID27775
Project Name	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	User Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	8	High	Gayathri.Vaddi, Janani
Sprint - 2	User Confirmation	USN-3	As a user, I will receive confirmation email once I have registered for the application	2	Medium	Poojalakshmi, Shuruthi
Sprint - 1	User login	USN-4	As a user, I can log into the application by entering email & password	3	High	Gayathri.Vaddi, Shuruthi
Sprint - 2	Signup or login via Gmail	USN-2,5	As a user, I can register or login for the application through Gmail	2	Low	Janani , Poojalakshmi
Sprint - 1	Analyse the dataset	USN-0	Preprocessing is done on the dataset from IBM	3	Medium	Gayathri.Vaddi Poojalakshmi
Sprint - 2	User dashboard	USN-6	As a user,I can find the average delay time of my flight using name or number	21	High	Janani, Shuruthi
Sprint - 1	Search Flight	USN-6	As a passenger,I can search for alternate flights	5	High	Gayathri.Vaddi, Janani
Sprint - 3	Predict delay time	USN -7	As a user, I can click 'Predict delay' to get the predicted delay time after entering flight details	34	High	Poojalakshmi, Shruthi
Sprint - 2	Predict Delay Accuracy	USN - 8	As a user, I can see how reliable and accurate the prediction is.	3	Medium	Gayathri.Vaddi, Shuruthi

Sprint - 2	Notification	USN-9	As a user,I will get notified if my flight is going to be delayed	2	Low	Janani , Poojalakshmi
<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint - 3	Feedback	USN-10	As a co-user, I want to help other users about the application through my ratings	3	Low	Gayathri.Vaddi Poojalakshmi
Sprint - 3	User Logout	USN-11	As a user, I do not want to stay logged in for long	1	Medium	Janani, Shuruthi
Sprint - 4	Application Testing		The project is tested to guarantee that the system is successfully built and meets all requirements	13	High	Gayathri.Vaddi, Janani
Sprint - 4	Deployment		The system is deployed on the IBM cloud	13	High	Poojalakshmi, Shuruthi

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
Sprint-1	19	6 Days	29 Oct 2022	01 Nov 2022	To be filled	04 Nov 2022
Sprint-2	30	6 Days	02 Nov 2022	05 Nov 2022	To be filled	07 Nov 2022
Sprint-3	38	6 Days	07 Nov 2022	10 Nov 2022	To be filled	12 Nov 2022
Sprint-4	26	6 Days	11 Nov 2022	14 Nov 2022	To be filled	15 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)

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

**Note:** Velocity and Burndown chart to be updated after each sprint.