

## Project Planning Phase

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

Date	24 June 2025
Team ID	LTVIP2025TMID53136
Project Name	Flight finder-navigating your air travel options
Maximum Marks	5 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	Data Collection	USN-1	Collect data from various APIs/sources	2	High	1
Sprint-1	Data Collection	USN-2	Load collected data into storage/memory	1	High	2
Sprint-1	Data Preprocessing	USN-3	Handle missing values in dataset	2	Low	3
Sprint-1	Data Preprocessing	USN-4	Convert/encode categorical data	2	Medium	4
Sprint-2	Model Building	USN-5	Build a machine learning model to recommend or classify flights	5	High	1
Sprint-2	Model Building	USN-6	Test model accuracy and performance	3	High	2
Sprint-2	Deployment	USN-7	Design working HTML pages for frontend	3	Medium	3
Sprint-2	Deployment	USN-8	Deploy using Flask and integrate model	5	High	4

**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	5 Days	17 June 2025	21 June 2025	8	21 June 2025
Sprint-2	16	5 Days	22 June 2025	26 June 2025	16	26 June 2025

**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)

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

**Burndown Chart:**

A burn down 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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>