

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 25 June 2025                                     |
| Team ID       | LTVIP2025TMID59290                               |
| Project Name  | FlightFinder: 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 | Registration                  | USN-1             | As a user, I can register by entering email, password, and confirming password. | 2            | High     | Member A, Member B |
| Sprint-1 | Registration                  | USN-2             | As a user, I receive a confirmation email after registration.                   | 1            | High     | Member A           |
| Sprint-1 | Registration                  | USN-4             | As a user, I can register through Gmail.  | 2            | Medium   | Member B           |
| Sprint-1 | Login                         | USN-5             | As a user, I can log into the application via email and password.               | 1            | High     | Member A           |
| Sprint-2 | Registration                  | USN-3             | As a user, I can register through Facebook.                                     | 2            | Low      | Member B           |
| Sprint-2 | Flight Search                 | USN-6             | As a user, I can search flights using source, destination, and date.            | 3            | High     | Member A, Member B |
| Sprint-3 | Booking                       | USN-7             | As a user, I can book a flight with passenger details and payment.              | 3            | High     | Member A, Member B |

| <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      | Booking History                      | USN-8                    | As a user, I can view my past and upcoming bookings.      | 2                   | Medium          | Member B              |
| Sprint-4      | Live Tracking                        | USN-9                    | As a web user, I can track live status of my flights.     | 2                   | Medium          | Member A              |
| Sprint-4      | Admin Panel                          | USN-10                   | As an admin, I can add, update, or delete flight records. | 2                   | Medium          | Member A,<br>Member B |

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

| <b>Sprint</b>   | <b>Total Story Points</b> | <b>Duration (Days)</b> | <b>Sprint Start Date</b> | <b>Sprint End Date (Planned)</b> | <b>Story Points Completed</b> | <b>Sprint Release Date (Actual)</b> |
|-----------------|---------------------------|------------------------|--------------------------|----------------------------------|-------------------------------|-------------------------------------|
| <b>Sprint-1</b> | <b>6</b>                  | <b>6 Days</b>          | <b>02 June 2025</b>      | <b>07 June 2025</b>              | <b>6</b>                      | <b>07 June 2025</b>                 |
| <b>Sprint-2</b> | <b>5</b>                  | <b>6 Days</b>          | <b>09 July 2025</b>      | <b>14 July 2025</b>              | <b>5</b>                      | <b>14 July 2025</b>                 |
| <b>Sprint-3</b> | <b>5</b>                  | <b>6 Days</b>          | <b>16 July 2025</b>      | <b>21 July 2025</b>              | <b>5</b>                      | <b>21 July 2025</b>                 |
| <b>Sprint-4</b> | <b>4</b>                  | <b>6 Days</b>          | <b>23 July 2025</b>      | <b>28 July 2025</b>              | <b>4</b>                      | <b>28 July 2025</b>                 |

#### **Velocity:**

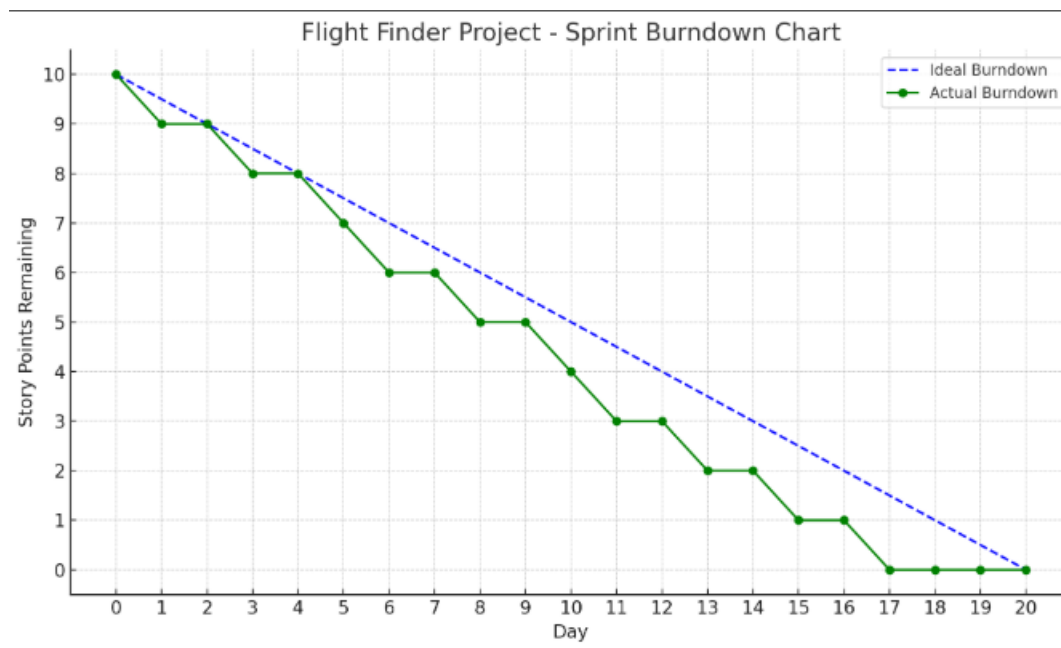
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

### Velocity Calculation

- **Sprint Duration** = 20 days
- **Velocity** = 10 story points per sprint
- **Average Velocity (AV)** = Velocity ÷ Sprint Duration
- **AV** =  $10 \div 20 = 0.5$  story points per day

◆ **Team's Average Velocity (AV) = 0.5 SP/day**

### 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>