

## Planning logic:

### Agile Sprint Planning and Velocity Calculation

#### Agile Terminology Overview

- **Sprint:** A fixed-duration period (typically 5–10 days) during which a team completes a set of tasks.
- **Epic:** A large, high-level feature or requirement that is broken down into smaller units (stories).
- **Story:** A smaller, actionable task derived from an epic that can be completed within a sprint.
- **Story Point:** A unit of measure for estimating the effort involved in completing a story. Usually estimated using the Fibonacci sequence (1, 2, 3, 5, 8...):
  - 1 – Very Easy
  - 2 – Easy
  - 3 – Moderate
  - 5 – Difficult

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### Sprint Breakdown

#### Sprint 1: Duration – 5 Days

Epic	Story	Story Points
Data Collection	Collection of Data	2
	Loading Data	1
Data Preprocessing	Handling Missing Values	3
	Handling Categorical Values	2
Total		8 Points

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### Sprint 2: Duration – 5 Days

Epic	Story	Story Points
Model Building	Model Development	5
	Model Testing	3
Deployment	Working HTML Pages	3
	Flask Deployment	5
Total		16 Points

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### Velocity Calculation

**Velocity** is the average number of story points completed per sprint.

- Total Story Points Completed = 8 (Sprint 1) + 16 (Sprint 2) = **24**
- Number of Sprints = **2**

**Velocity = Total Story Points / Number of Sprints**

**Velocity = 24 / 2 = 12 story points per sprint**