

Planning Logic

Agile Project Breakdown





A **Sprint** is a fixed period or duration in which a team works to complete a set of tasks.

An **Epic** is a **big task or project** that is too large to complete in one sprint. It is broken down into **smaller tasks (stories)** that can be completed over multiple sprints.

A **Story** is a small task. It is part of an **Epic**.

A **Story Point** is a number that represents how much effort a story takes to complete

(usually in the form of the Fibonacci series):

-  1 - Very Easy task
 -  2 - Easy task
 -  3 - Moderate task
 -  5 - Difficult task
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Sprint 1 (5 Days)

Data Handling & Preparation

Dataset Acquisition

- Collecting pollen image dataset → 2
- Inspecting and loading images into memory → 1

Preprocessing

- Image resizing and normalization → 2
- Label encoding (One-hot, categorical) → 2
- Train-test split with stratification → 3

Sprint 2 (5 Days)

Model Building and Deployment

CNN Architecture

- Designing CNN architecture → **5**
- Training with early stopping & augmentation → **3**

Web Deployment

- Building HTML templates for upload & result → **2**
- Backend Flask integration with model → **3**
- Testing the entire app end-to-end → **3**


Total Story Points

- **Sprint 1 Total** = $2 + 1 + 2 + 2 + 3 = 10$
- **Sprint 2 Total** = $5 + 3 + 2 + 3 + 3 = 16$

Velocity Calculation

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

- Total Points = 10 (Sprint 1) + 16 (Sprint 2) = **26**
- Number of Sprints = 2

 **Velocity** = $26 / 2 = 13$ **Story Points per Sprint**