

A Sprint 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 form of Fibonacci series)

- 1- Very Easy task
- 2- Normal task
- 3- Moderate task
- 5- Difficult task

Storypoint -5 (1,2,3,5)

Epic 1 – Data Collection

- Collect Rainfall Data (USN1) → 2
- Collect River Level Data (USN2) → 2
- Integrate Weather API (USN3) → 3

Epic 2 – Data Preparation

- Handle Missing Values (USN4) → 3
- Feature Engineering (Rainfall intensity, water rise rate) (USN5) → 3
- Data Normalization & Cleaning (USN6) → 2

Epic 3 – ML Model Development

- Select ML Algorithm (RF/XGBoost/LSTM) (USN7) → 3
- Train Initial ML Model (USN8) → 5

Total Story Points in Sprint 1

$$2 + 2 + 3 + 3 + 3 + 2 + 3 + 5 = 23$$

Total Story Points

Sprint 1 = 12

Sprint 2 = 20

Velocity= Total Story Points Completed/ Number of Sprints

Total story Points= 12+20=32

No of Sprints= 2

Velocity =32/2

16(Story Points per Sprint)

Your team's velocity is 16 Story Points per Sprint.