

**Sprint:**

A Sprint is a fixed time period during which the team completes a defined set of tasks.

**Epic:**

An Epic is a large feature or module that cannot be completed in a single sprint and is divided into smaller user stories.

**Story:**

A Story is a small, implementable task that contributes to completing an Epic.

**Story Point:**

A Story Point represents the relative effort required to complete a story (complexity + time + uncertainty).

Scale used: **1, 2, 3, 5**

Effort Levels:

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

**Sprint 1****System Setup & Data Layer (Epic 1)**

- Database Creation (USN-1) → 2
- Table Schema Definition (USN-2) → 1
- Sample Data Insertion (USN-3) → 2

**LLM Integration (Epic 2)**

- Gemini API Configuration (USN-4) → 3
- Prompt Engineering for SQL Generation (USN-5) → 3
- Response Handling Logic (USN-6) → 2

**Total Story Points in Sprint 1**

$= 2 + 1 + 2 + 3 + 3 + 2$

**= 13**

**Sprint 2****SQL Generation Engine (Epic 3)**

- Natural Language Input Processing (USN-7) → 2

- SQL Query Generation via Gemini (USN-8) → 5
- SQL Validation & Cleanup (USN-9) → 3

#### **Application Interface (Epic 4)**

- Streamlit UI Development (USN-10) → 3
- Query Display & Formatting (USN-11) → 1
- Error Handling & Messages (USN-12) → 2

#### **Total Story Points in Sprint 2**

$$= 2 + 5 + 3 + 3 + 1 + 2$$

$$= \mathbf{16}$$

#### **Total Story Points**

$$\text{Sprint 1} = \mathbf{13}$$

$$\text{Sprint 2} = \mathbf{16}$$

$$\text{Total Story Points} = 13 + 16 = \mathbf{29}$$

#### **Velocity Calculation**

$$\text{Velocity} = \text{Total Story Points} / \text{Number of Sprints}$$

$$\text{Velocity} = 29 / 2$$

$$\text{Velocity} = \mathbf{14.5 \approx 15 \text{ Story Points per Sprint}}$$

#### **Final Statement:**

Your team's estimated velocity is **~15 Story Points per Sprint**, indicating the team's sustainable delivery capacity for this project.