

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

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

$$= \mathbf{13}$$

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

Sprint 1 = **13**

Sprint 2 = **16**

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

Velocity Calculation

Velocity = Total Story Points / Number of Sprints

Velocity = $29 / 2$

Velocity = **14.5 ≈ 15 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.