

# Project Planning Phase

Date	11 February 2026
Team ID	LTVIP2026TMIDS65701
Project Name	TransLingua – AI-Powered Multi-Language Translator
Maximum Marks	4 Marks

## Agile Planning – Sprint Planning and Velocity Calculation

### Sprint Planning Concepts

A **Sprint** is a fixed period during which a team works to complete a set of defined tasks.

An **Epic** is a large feature or functionality that cannot be completed in a single sprint. It is divided into smaller tasks called **User Stories**.

A **User Story** is a small functional task that contributes to completing an epic.

A **Story Point** represents the effort required to complete a user story. The Fibonacci sequence (1, 2, 3, 5) is commonly used for estimation:

- 1 – Very easy task
- 2 – Normal task
- 3 – Moderate task
- 5 – Difficult task

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## Sprint 1

### Epic 1 – Application Setup

- Project Environment Setup (USN-1) – 2
- Streamlit Installation and Configuration (USN-2) – 1

### Epic 2 – Core Translation Feature

- Text Input Implementation (USN-3) – 2
- Language Selection Implementation (USN-4) – 2
- Gemini API Integration (USN-5) – 5

## Epic 3 – Security Implementation

- API Key Configuration using .env (USN-6) – 3

### Total Story Points in Sprint 1

$2 + 1 + 2 + 2 + 5 + 3 = \mathbf{15 \text{ Story Points}}$

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## Sprint 2

### Epic 4 – Output and UI Enhancement

- Display Translated Output (USN-7) – 2
- Improve UI Layout (USN-8) – 3

### Epic 5 – Testing and Debugging

- Functional Testing (USN-9) – 3
- Performance Testing (USN-10) – 3

### Epic 6 – Documentation and Deployment

- GitHub Repository Setup (USN-11) – 2
- Project Documentation Preparation (USN-12) – 5

### Total Story Points in Sprint 2

$2 + 3 + 3 + 3 + 2 + 5 = \mathbf{18 \text{ Story Points}}$

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## Total Story Points Calculation

Sprint 1 = 15

Sprint 2 = 18

Total Story Points =  $15 + 18 = \mathbf{33}$

Number of Sprints = 2

Velocity = Total Story Points / Number of Sprints

Velocity = 33 / 2

Velocity = **16.5 ≈ 16 Story Points per Sprint**

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## Conclusion

The team's average velocity is approximately **16 Story Points per Sprint**, which indicates consistent sprint execution and balanced workload distribution.