

Planning Logic for Edu-Tutor AI Project

This document provides important definitions in Agile planning and an example of how to calculate team velocity for the Edu-Tutor AI project.

Key Definitions:

Sprint: A predefined duration or time frame during which a team works to deliver a set of tasks.

Epic: large undertaking or project that is too huge to be done in a single sprint. It is divided into smaller tasks (stories) that are done across numerous sprints.

Story: A minor task that is an element of an Epic.

Story Point: A value that indicates the amount of effort taken to finish a story, often in the form of a Fibonacci sequence (e.g., 1, 2, 3, 5, 8.).

- Very Easy task
- Easy task
- Moderate task
- Difficult task

Example: Edu-Tutor AI Story Points and Velocity Calculation With the functionalities of the Edu-Tutor AI project, here's what we can imagine in terms of sprints and velocity:

Epic Examples:

Core AI Features: Includes the chatbot, summarizer, refiner, word meaning, and translator features.

Quiz System Development: Involves quiz creation, interactive rendering, submission, and grading.

Performance Tracking & Dashboard: Involves database initialization, storing results, retrieving data, analysis, and dashboard UI.

Application Infrastructure & UI: Involves Gradio initialization, model loading, and overall UI organization.

Sprint 1: (5 Days)

Application Infrastructure & UI

- Gradio Environment Setup: 2 Story Points
- AI Model Loading & Basic Integration: 3 Story Points
- Initial Multi-Tab UI Structure: 2 Story Points

Core AI Features

- Chatbot Functionality (Basic Q&A): 5 Story Points
- Text Summarizer (Basic Implementation): 3 Story Points

Total Story Points for Sprint 1 = 15

Sprint 2: (5 Days)

Core AI Features

- Text Refiner Implementation: 5 Story Points
- Word Meaning & Usage Lookup: 3 Story Points
- Sentence Translator Implementation: 3 Story Points

Quiz System Development

- Quiz Prompt Design & AI Integration: 8 Story Points
- Quiz Text Parsing Logic: 5 Story Points
- Total Story Points for Sprint 2 = 24

Velocity Calculation:

- Total Story Points Completed = Sprint 1 Story Points + Sprint 2 Story Points
- Total Story Points = $15 + 24 = 39$ Story Points
- Number of Sprints = 2
- Velocity = Total Story Points Completed / Number of Sprints
- Velocity = $39 / 2 = 19.5$ Story Points per Sprint

Your team's velocity, in this example, is 19.5 Story Points per Sprint. This metric can be used to estimate how much work the team can realistically complete in future sprints.