Planning Logic – EduTutor AI

# Key Terms

* Sprint: A fixed time period (e.g., 5 days) in which a team completes a defined set of tasks.
* Epic: A large task or feature that is broken into multiple smaller tasks.
* Story: A single, actionable task part of an Epic.
* Story Point: A unit representing the complexity and effort required (commonly based on Fibonacci series).

## Sprint 1 (5 Days): Backend Setup & Core AI Logic

* Epic 1: Project Setup & API Integration

1. Initialize FastAPI Backend – 2 SP
2. Setup LangChain + Pinecone – 3 SP

* Epic 2: AI Model Access

1. Connect to IBM Watsonx (Granite-13B) – 3 SP
2. Setup prompt chaining logic – 2 SP

***Total Sprint 1 (5 Days) Story Points: 10***

## Sprint 2 (5 Days): Streamlit UI & Personalization Logic

* Epic 3: User Interaction & UI

1. Design Streamlit Frontend – 3 SP
2. Add different topics for the quiz generation – 2 SP

* Epic 4: Personalization System

1. Contextual Memory (LangChain) – 3 SP
2. User data flow (topic selection →Quiz Generation → Attempt→ result) – 2 SP

***Total Sprint 2 (5 Days) Story Points: 10***

## Sprint 3 (5 Days): Google Classroom Integration & Content Generation

* Epic 5: Classroom Sync

1. Google Classroom OAuth & API Setup – 5 SP
2. Import user data and tasks – 3 SP

* Epic 6: Edu Content Generator

1. Dynamic topic-to-content generation – 4 SP
2. Topic-based quiz generation – 3 SP

***Total Sprint 3 (5 Days) Story Points: 15***

## Sprint 4 (5 Days): Testing & Deployment

* Epic 7: Testing & Optimization

1. Debug model logic – 3 SP
2. Handle prompt exceptions – 2 SP

* Epic 8: Deployment

1. Deploy to IBM Cloud or Render – 3 SP
2. Prepare user guide + readme – 2 SP

***Total Sprint 4 (5 Days) Story Points: 10***

# Velocity Calculation

Total Story Points = 45

No. of Sprints = 4

Velocity = 45 / 4 = 11.25 Story Points/Sprint

***Your team’s velocity is approximately 11.25 Story Points per Sprint.***